SERVICE MANUAL

SR1000

marantz

model SR1000

Stereophonic Receiver

MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, MARANTZ Company has created the ultimate in stereo sound. Only original MARANTZ parts can insure that your MARANTZ product will continue to perform to the specifications for which it is famous.

Parts for your MARANTZ stereo are generally available within 72 hours throughout the nation via a toll-free line to our National Parts Depot in California. The sales professionals who take your call immediately refer to their own desk top computer terminal and can quickly determine the availability and price information you require. If, for some reason, your order should exceed our available stock, we usually can instantly provide an alternate replacement part or current delivery information. When the order is placed and confirmed, the computer simultaneously generates "hard copy" orders at the distribution center. As hard copies come directly from the computer to the national parts depot, your requested stock is assembled and prepared for shipment and placed on the first available carrier for delivery to you.

ORDERING PARTS

Phone orders will eliminate mail delays, and we encourage the use of this method. If you order by mail, use MARANTZ parts order forms which are available from our National Parts Depot located at the following address:

SUPERSCOPE NATIONAL PARTS DEPARTMENT
20525 Nordhoff Street
Chatsworth, California 91311
Phone: 1-800-423-5108
1-213-998-9333

The following information must be supplied to eliminate delays in processing your order:

1. Complete address.
2. Complete part numbers.
3. Complete description of parts.
4. Model number for which part is required (indicate MARANTZ).
5. Account number (for account customers only).

Direct consumers will be provided with the current retail price quotation on available parts in order to advise them of the cost of the parts and shipping.

OVERSEAS PARTS ORDERING

Parts may also be ordered from the following overseas addresses:

CANADA

Superscope Canada, Ltd.
3710 Nashua Drive
Mississauga
Ontario, Canada L4V1M5

AUSTRALIA

Superscope (Australasia) Pty., Ltd.
32 Cross Street (P.O. Box 604)
Brookvale 2100 N.S.W.
Australia

JAPAN

Marantz Japan, Inc.
3622 Kamitsuruma
Sagamihara Shi
Kanagawa, Japan

EUROPE

Superscope Europe, S.A.
Avenue Leopold III, 2
7120 Peronnes-Lez-Binche
Belgium

Marantz France
Rue Louis Armand 9
92600 Asnieres
Hauts-de-Seine
France

Marantz Audio U.K. Ltd.
London Road, 203
Staines
Middlesex
England

Superscope GmbH
Max-Planck-Strasse 22
D-6072 Dreieich 1
West Germany

All of the above locations are fully equipped to take care of your total service needs. Because various countries have differing configuration requirements, it is necessary that you contact the service facility in your particular country. In the event that there is no service location listed for your country, please contact the nearest facility for the necessary assistance.

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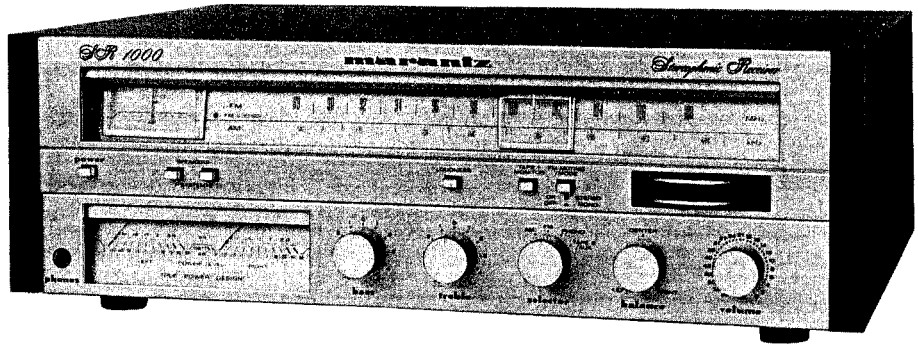
MODEL SR-1000 STEREOPHONIC RECEIVER



INTRODUCTION

This service manual was prepared for use by Authorized Warranty Stations and contains service information for Marantz Model SR-1000 Stereophonic Receiver.

Servicing information and voltage data included in this manual are intended for use by the knowledgeable and experienced technician only. All instructions should be read carefully. No attempt should be made to proceed without a good understanding of the operation of the receiver.

The parts list furnishes information by which replacement parts may be ordered from the Marantz Company. A simple description is included for parts which can usually be obtained through local suppliers.

1. P.W. BOARDS

As can be seen from the circuit diagram the chassis of Model SR-1000 consists of the following units. Each unit mounted on a printed circuit board is described within the square enclosed by a bold dotted line on the circuit diagram.

1. Tuner . . . . . mounted on P.W. Board P100
2. Main Amp/Power Supply . . . . . mounted on P.W. Board P700
3. Volume/Balance . . . . . mounted on P.W. Board PE00
4. Tone Control . . . . . mounted on P.W. Board PF00
5. Pushswitch . . . . . mounted on P.W. Board PS00
6. Headphone Jack . . . . . mounted on P.W. Board PW00
7. Speaker Terminal . . . . mounted on P.W. Board PW50
8. Power Meter/Speaker Switch . . . . . mounted on P.W. Board PX00
9. Stereo LED . . . . . mounted on P.W. Board PY00
10. Dial Pointer Lamp . . . mounted on P.W. Board PZ50
11. Tuning Meter Lamp . . . mounted on P.W. Board PZ50

2. TEST EQUIPMENT REQUIRED FOR SERVICING

This table lists the test equipment required for servicing the Model SR-1000 Receiver.

Item	Manufacturer and Model No.	Use
AM Signal Generator		Signal source for AM alignment
Test Loop		Use with AM Signal Generator
FM Signal Generator MPX Signal Generator	Sound Technology Model 1000A	Signal source for FM alignment Stereo separation alignment and trouble shooting
Distortion Analyzer Audio Oscillator AC VTVM	Sound Technology Model 1700A	Distortion measurements Sinewave and squarewave signal source Voltage measurements (AC)
Oscilloscope	Tektronix Model T932 Philips Model 3232	Waveform analysis and trouble shooting and ASO alignment
Frequency Counter	Fluke Model 1900A	MPX Oscillator adjustment (VCO)
Circuit Tester		Trouble shooting
DC VTVM	Fluke Model 8000 "Digital" Simpson Model 313, Triplet Model 801	Voltage measurements (DC)
AC Wattmeter	Simpson Model 1379	Monitors primary power to amplifier
AC Ammeter	Commercial Grade (1-10A)	Monitors amplifier output under short circuit condition
Line Voltmeter	Simpson Model 1359	Monitors potential of primary power to amplifier
Variable Autotransformer	Superior Electronic Co., Powerstat Model 116B–10A	Adjusts level of primary power to amplifier
Shorting Plug	Use phono plug with 600-ohm across center pin and shell	Shorts amplifier input to eliminate noise pickup
Output Load (8 ohms, ±0.5%, 100W)	Commercial Grade	Provides 8-ohm load for amplifier output termination
Output Load (4 ohms, ±0.5%, 100W)	Commercial Grade	Provides 4-ohm load for amplifier output termination

3. FM ALIGNMENT PROCEDURES

(Selector switch in the FM position)

3.1 TUNING METER ALIGNMENT

1. Set the FM signal generator to no signal.
2. Adjust the secondary core of L201 (Ⓐ) so that the tuning meter may read zero (center position).

NOTE: Place the tuning pointer at 98 MHz adjacency.

3.2 FM TRACKING ALIGNMENT

1. Connect an FM signal generator to the FM antenna terminals and an oscilloscope and an audio distortion analyzer to the TAPE OUT jacks on the rear panel.
2. Set the FM signal generator to 87.3 MHz and provide about 3 to 5 μV. Place the tuning pointer at the low frequency end by rotating the tuning knob and adjust the core of oscillator coil L105 (Ⓓ) to obtain maximum audio output.
3. Set the FM signal generator to 109 MHz and provide about 3 to 5 μV. Rotate the tuning knob and place the tuning pointer at the high frequency end and adjust the trimming capacitor C114 (Ⓓ) for maximum output.

NOTE: Keep the C114 at a half of satisfied capacitance.

4. Repeat steps 2 and 3 until no further adjustment is necessary.
5. Set the FM signal generator to 90 MHz and tune the receiver to the same frequency. Decrease signal generator output until the audio output level decreases with the decreasing generator output. Adjust the antenna coil L101 (Ⓑ), RF coil L103 (Ⓒ) for minimum audio distortion.
6. Set the FM signal generator to 106 MHz and tune the receiver to the same frequency. Adjust the trimming capacitors TC_1 (Ⓑ) and TC_2 (Ⓒ) for minimum distortion.
7. Repeat steps 5 and 6 until no further adjustment is necessary.

3.3 FM IF ALIGNMENT

1. Set the FM signal generator to 98 MHz and increase its usable output level and tune the receiver to the same frequency.
2. The L106 (Ⓔ) should be adjusted for maximum output waveform with decreasing the FM signal generator input level so that the amount of noise should be the same on and beneath the waveform. Readjust the L201 for correct zero point as turning the L106 deviates zero point.

3.4 MONO DISTORTION ALIGNMENT

1. Set the FM signal generator to provide 60 dB at 98 MHz.
2. Set the modulation of FM signal generator to 1 kHz, 100%.
3. Place the tuning meter pointer at the center position.
4. Adjust the primary core (upper) of L201 (Ⓕ) for minimum distortion.

3.5 STEREO DISTORTION ALIGNMENT

1. Set the FM signal generator to provide stereo composite signal and tune the receiver to the same frequency.
2. Adjust the L106 (Ⓔ) for minimum distortion.
3. Repeat the adjustment of L201 so that the tuning meter may read zero.

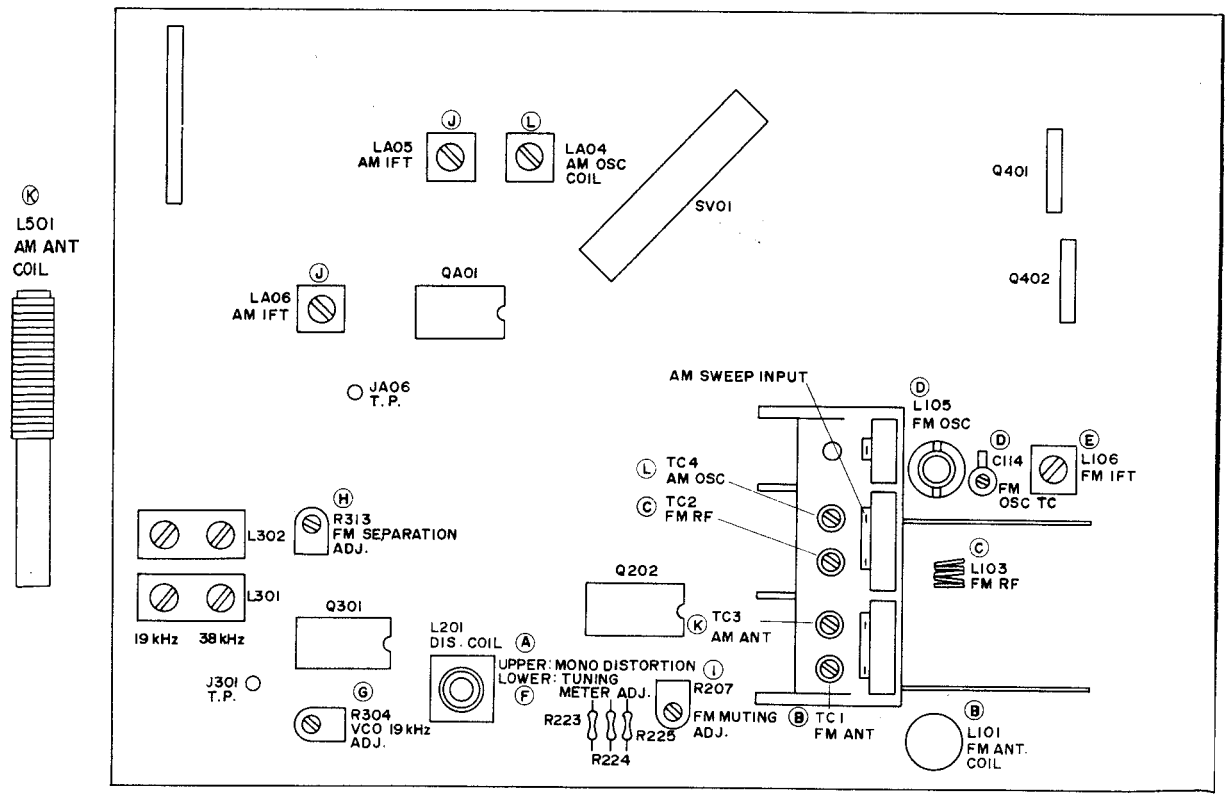


Figure 1. Adjustment Point Location

3.6 MULTIPLEX ALIGNMENT

1. Connect a frequency counter to test point J301.
2. Set the FM signal generator to provide 60 dB (1 mV) at 98 MHz.
3. Tune the receiver to the same frequency so that the center tuning meter pointer indicates its center.
4. Turn off the modulation of the FM signal generator and adjust the R304 (Ⓖ) so that the frequency counter may a precisely read 19.08 kHz.

3.7 STEREO SEPARATION ALIGNMENT

1. Set the FM signal generator to provide stereo composite signal and tune the receiver to the same frequency so that the center tuning meter pointer indicates its center.
2. Adjust the R313 (Ⓗ) for maximum and same separation in both channels.

3.8 MUTING LEVEL ALIGNMENT

1. Set the FM signal generator to provide 22 dB (12.5 μV) at 98 MHz.
2. Set the modulation of FM signal generator to 1 kHz, 100%.
3. Tune the receiver to the same frequency so that the center tuning meter pointer indicates its center.
4. Turn on FM MUTING pushswitch.
5. Turn the R207 (Ⓘ) until the output waveform disappears and adjust it to a point where the waveform comes to appear again.

4. AM ALIGNMENT PROCEDURES

(Selector switch in the AM position)

4.1 AM IF ALIGNMENT

1. Connect a sweep generator to the tuning capacitor C120 (for AM oscillator) and an alignment scope to the test point JA06.
2. Rotate each core of IF transformers LA05 (Ⓙ) and LA06 (Ⓙ) for maximum height and flat top symmetrical response.

4.2 AM TRACKING ALIGNMENT

1. Set the AM signal generator to 520 kHz. Turn the tuning capacitor fully closed (place the tuning pointer at the low end) and adjust the oscillator coil LA04 (Ⓛ) for maximum audio output.
2. Set the AM signal generator to 1650 kHz. Place the tuning pointer in the high frequency end and adjust the trimming capacitor TC_4 (Ⓛ) for maximum audio output.
3. Repeat steps 1 and 2 until no further adjustment is necessary.
4. Set the AM signal generator to 600 kHz and tune the receiver to the same frequency and adjust a slug core of AM ferrite-rod antenna L051 (Ⓚ) for maximum output.
5. Set the generator to 1400 kHz and tune the receiver to the same frequency and adjust the antenna trimming capacitor TC_3 (Ⓚ) for maximum output.
6. Repeat steps 4 and 5 until no further adjustment is necessary.

NOTE: Use the loop for AM tracking alignment.

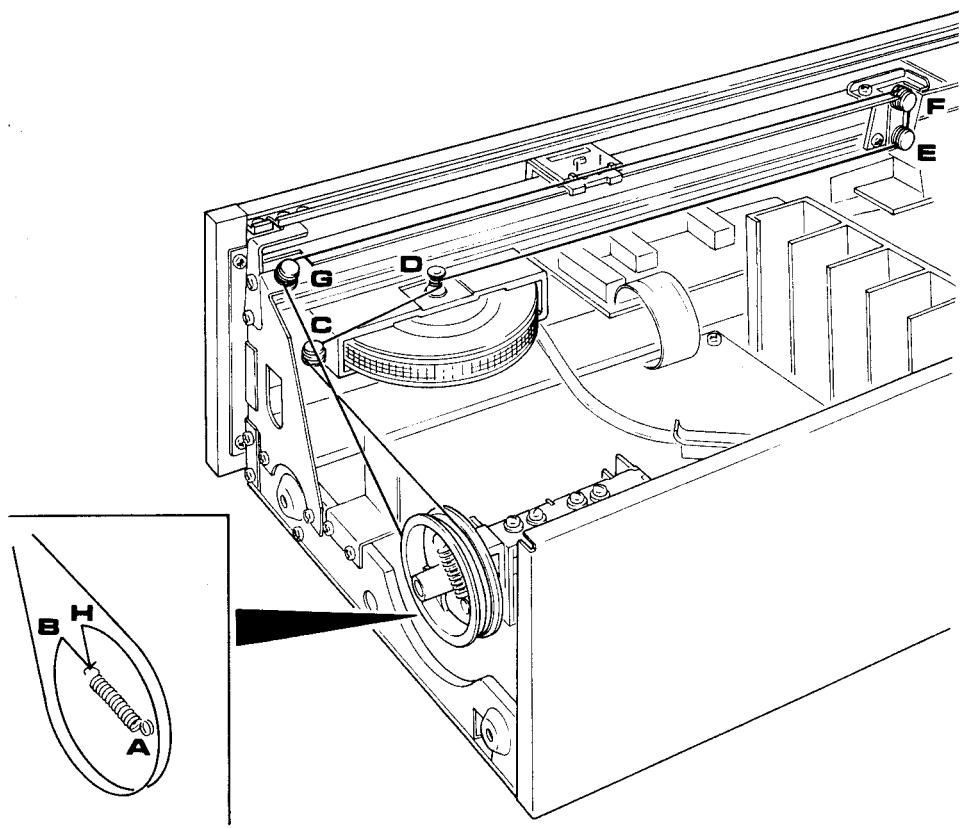


Figure 2. Dial Stringing

5. AUDIO ADJUSTMENT

5.1 VOLTAGE ADJUSTMENT

1. Turn on the POWER pushswitch and connect a DC voltmeter across the J837 and J723.
2. Check that DC voltmeter reading is 34 ± 1 V.

5.2 POWER METER CALIBRATION

Adjust the trimming resistors RX09 (Ⓜ) and RX10 (Ⓜ) so that the power meter reading is 0 dB (20W) at 1 kHz, 20 W outputs (8 Ω load).

6. VOLTAGE CONVERSION

To convert the unit to a different power source voltage, change the position as illustrated in the drawing below.

CAUTION: DISCONNECT POWER SUPPLY CORD FROM AC OUTLET BEFORE CONVERTING VOLTAGE. DO NOT DISASSEMBLE THE VOLTAGE SELECTOR ABSOLUTELY.

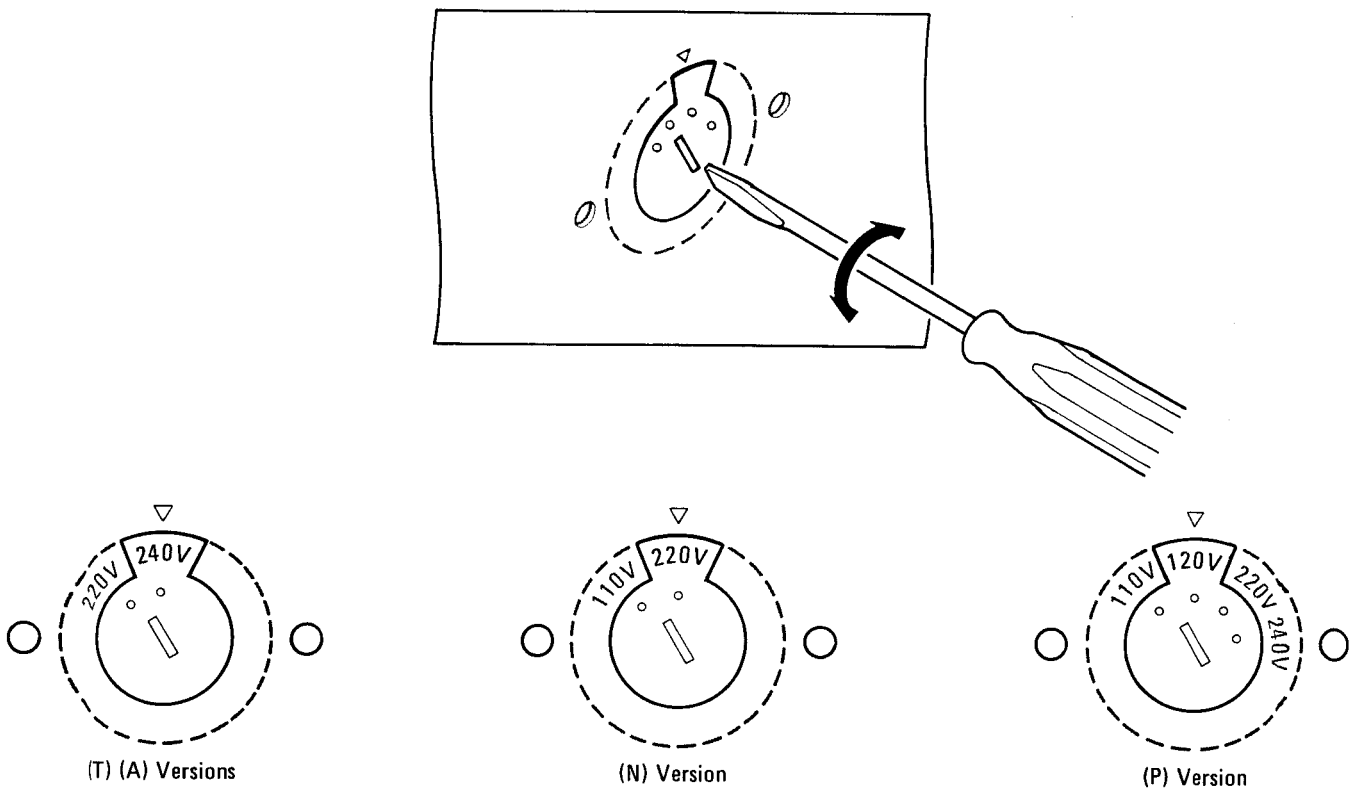


Figure 3. Voltage Conversion

(Note on safety: The parts marked with ⚠ are important parts on the safety. Please use the parts having the designated parts numbers without fail.)

FTZ REGULATION

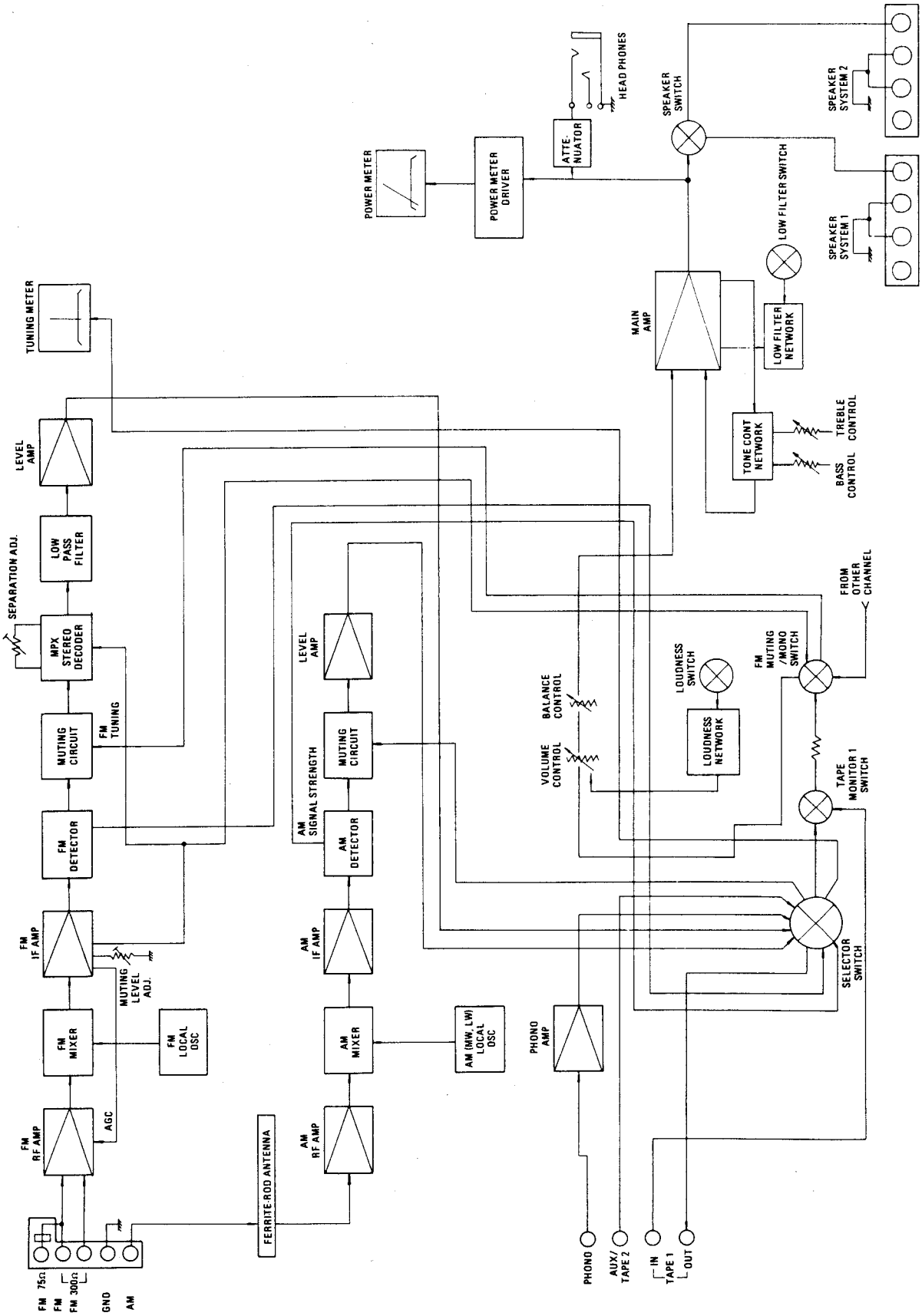
Instruction for the use in the range other than specified in FTZ codes.

Achtung für die Leute, die in dem Gebiet wohnen, wo die FTZ-Bestimmungen vorherrschend sind.

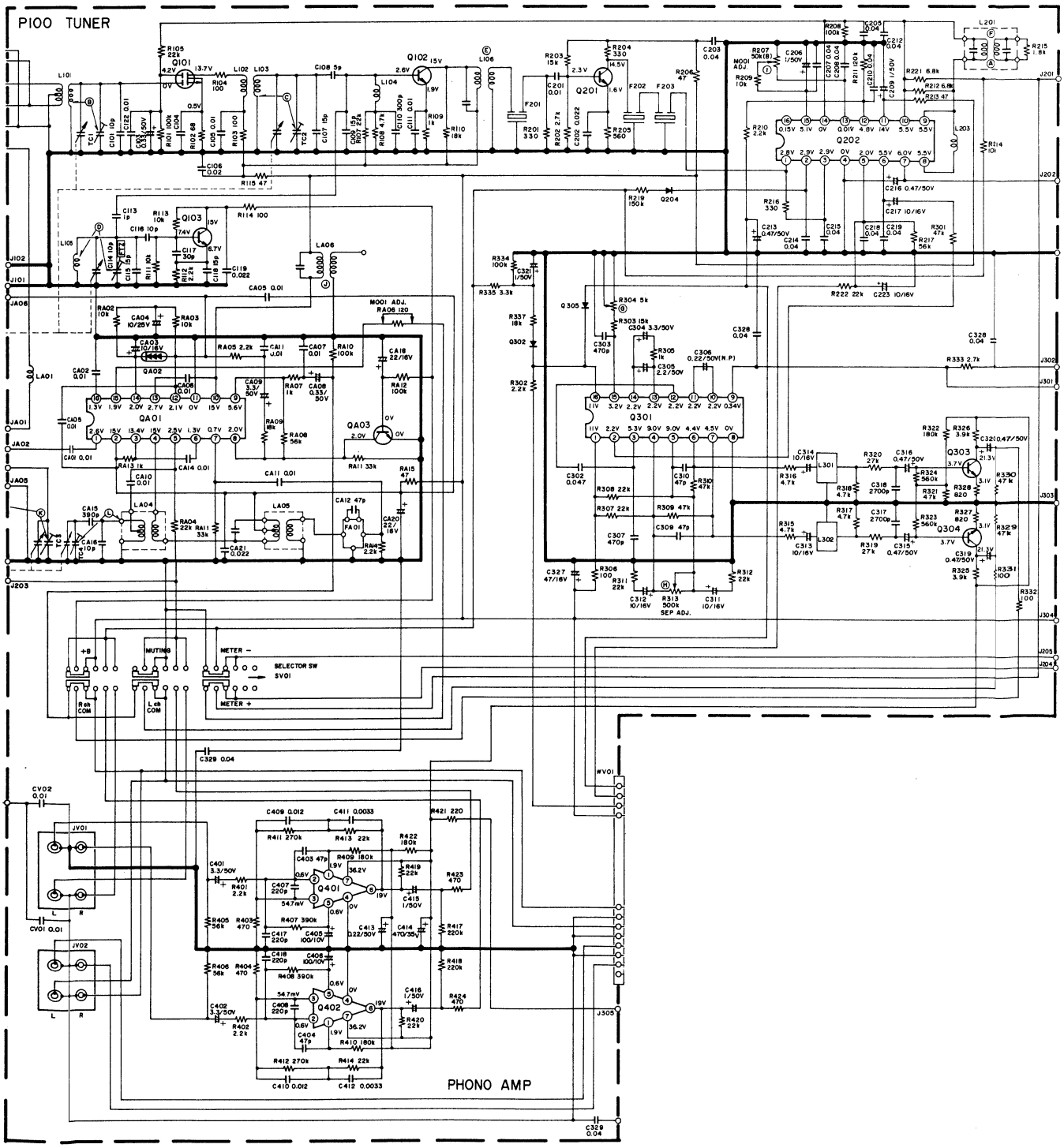
Sollte das Gerät auch für Frequenzen auszerhalb des in den FTZ-Bestimmungen angegebenen Bereiches empfangebereit sein, bitten wir, den Bereich durch Nachstellen des Kernes in der Oszillatorspule (in der Abbildung mit "FTZ" gekennzeichnet) so zu korrigieren, dass er den Bestimmungen entspricht.

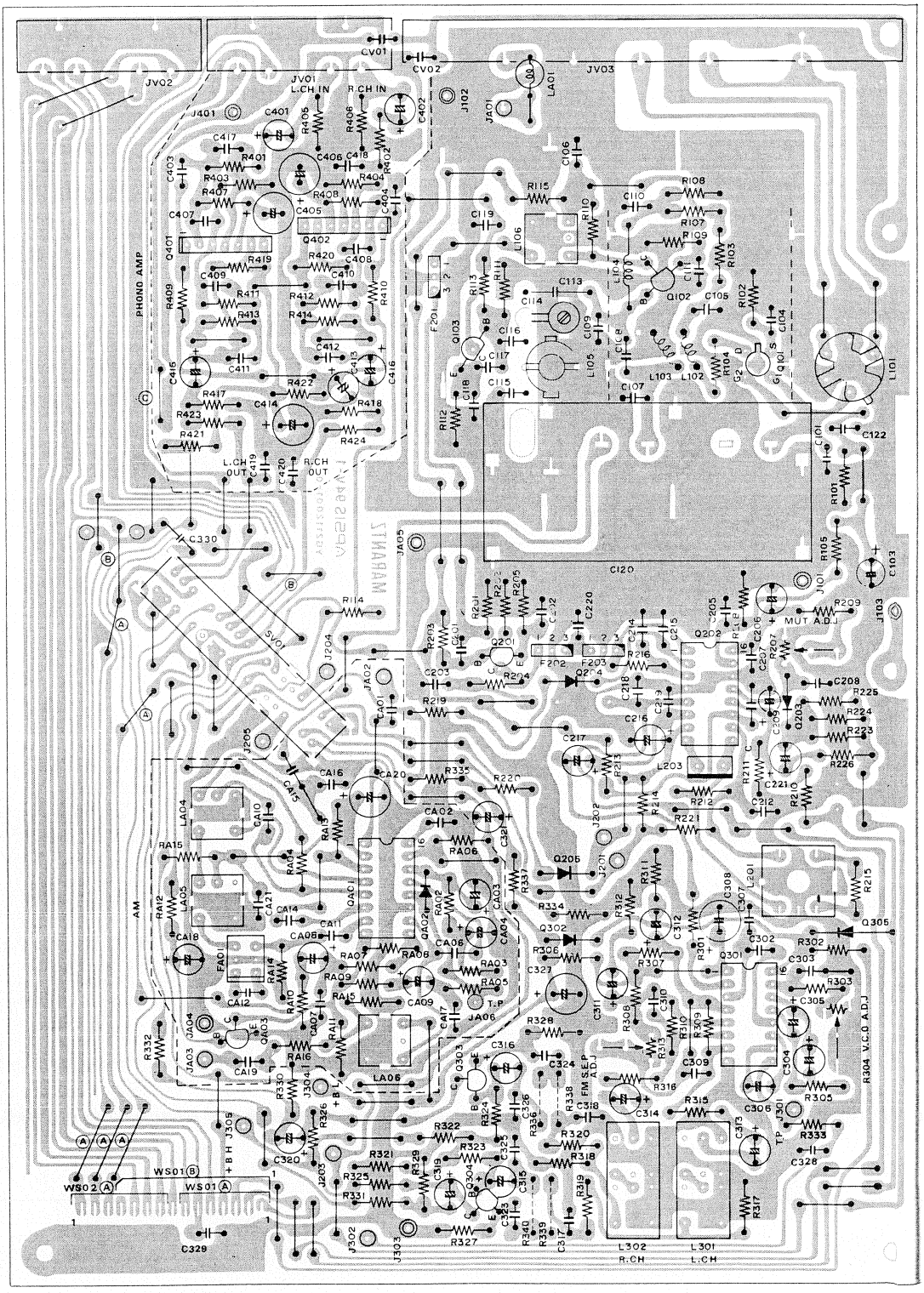
7. DIAGRAMS

7.1 BLOCK DIAGRAM

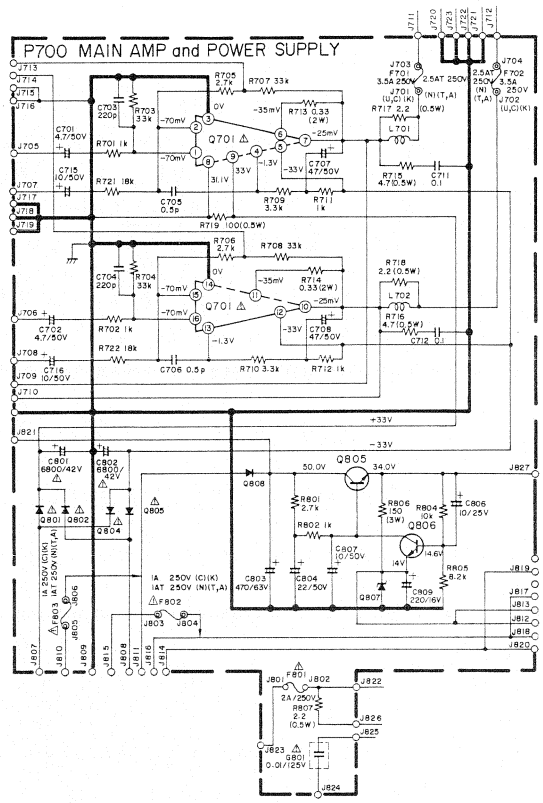


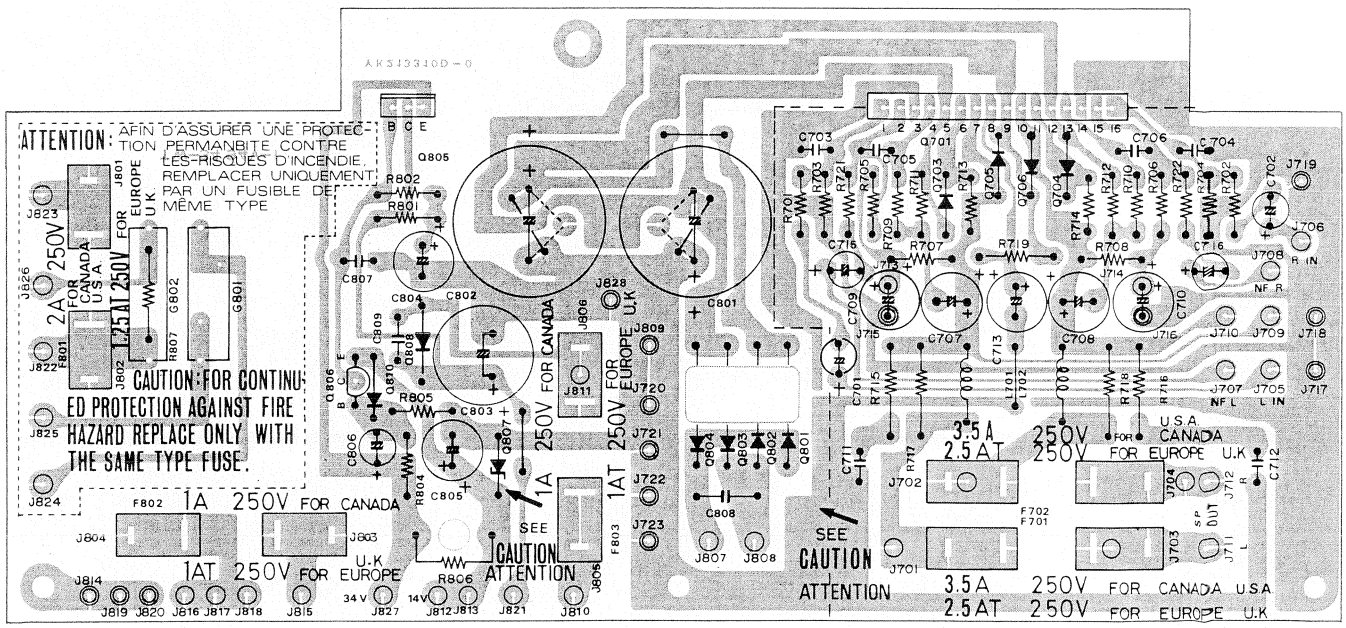
7.2 TUNER BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS – P100



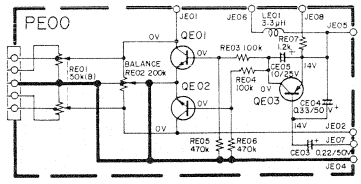

PHONO AMP
AM
FM S.EP ADJ
MUT ADJ
R304 V.C.O ADJ
L.CH IN
R.CH IN
L.CH OUT
R.CH OUT
R.CH
L.CH
TP

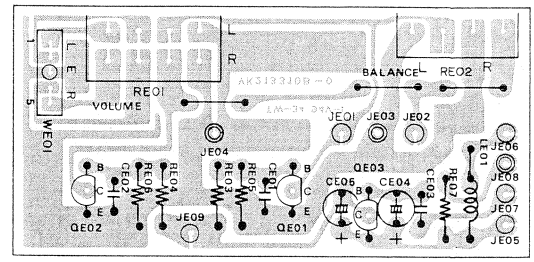
7.3 MAIN AMP/POWER SUPPLY BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS – P700



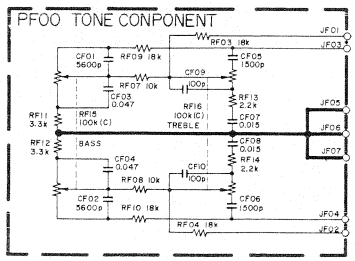

ATTENTION: AFIN D'ASSURER UNE PROTECTION PERMANBITE CONTRE LES-RISQUES D'INCENDIE, REMPLACER UNIQUEMENT PAR UN FUSIBLE DE MÊME TYPE
CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD REPLACE ONLY WITH THE SAME TYPE FUSE.
2A 250V FOR CANADA U.S.A
1.25AT 250V FOR EUROPE U.K
1A 250V FOR CANADA
1AT 250V FOR EUROPE U.K
3.5A 2.5AT 250V FOR CANADA U.S.A
3.5A 2.5AT 250V FOR EUROPE U.K
SEE CAUTION ATTENTION

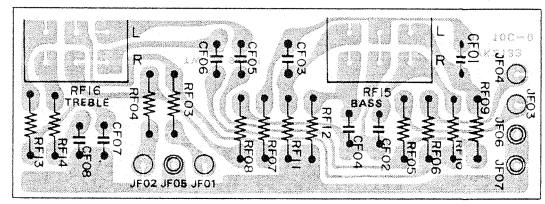
7.4 VOLUME/BALANCE BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS-PE00



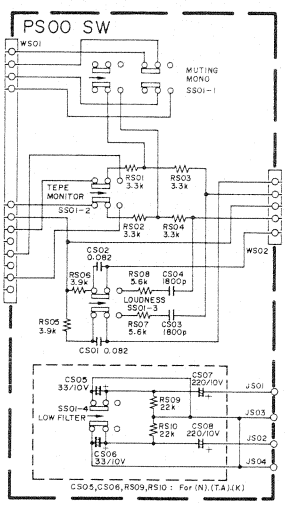


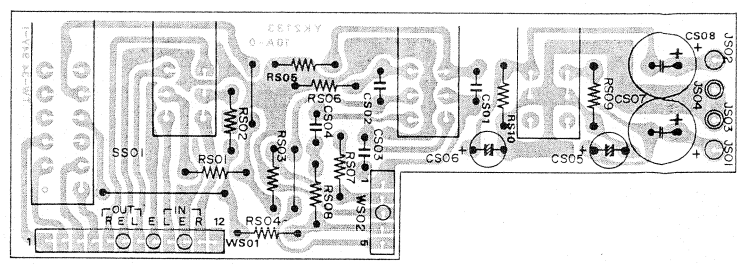
7.5 TONE CONTROL BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS-PF00



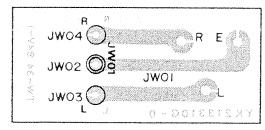


7.6 PUSHSWITCH BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS – PS00

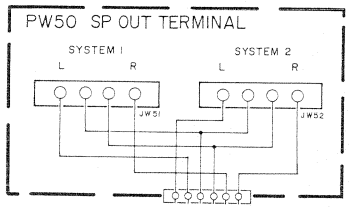


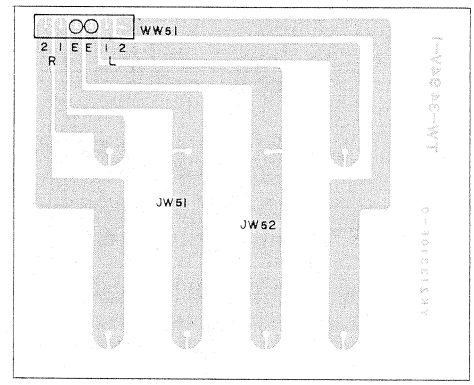


7.7 HEADPHONE JACK BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS – PW00

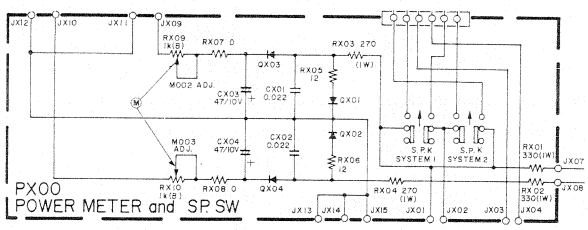


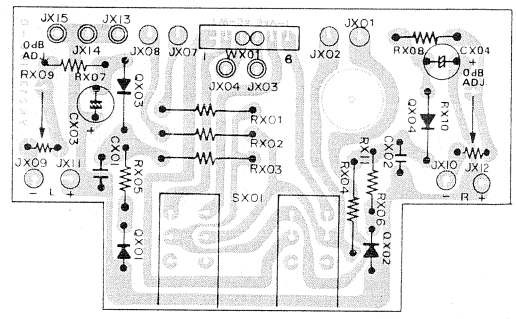
7.8 SPEAKER TERMINAL BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PW50



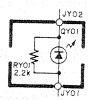


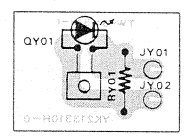
7.9 POWER METER/SPEAKER SWITCH BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS – PX00



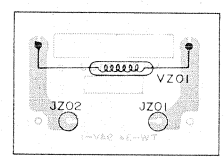


7.10 STEREO LED BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS – PY00

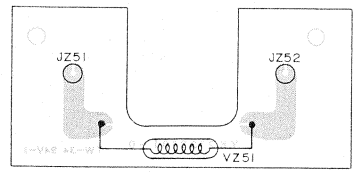




7.11 DIAL POINTER LAMP BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS – PZ00

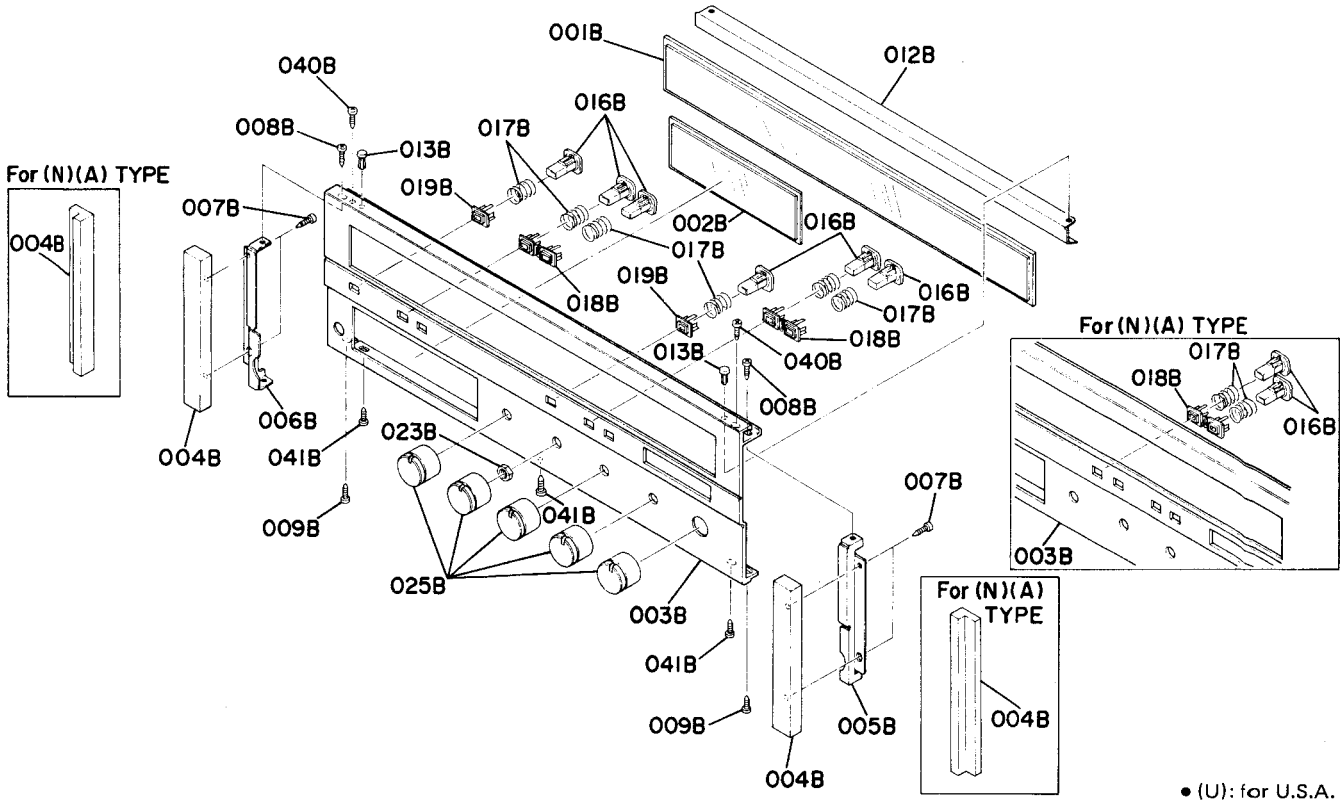


7.12 TUNING METER LAMP BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS – PZ50



8. EXPLODED VIEWS AND PARTS LIST

8.1 [C01-99] FRONT PANEL

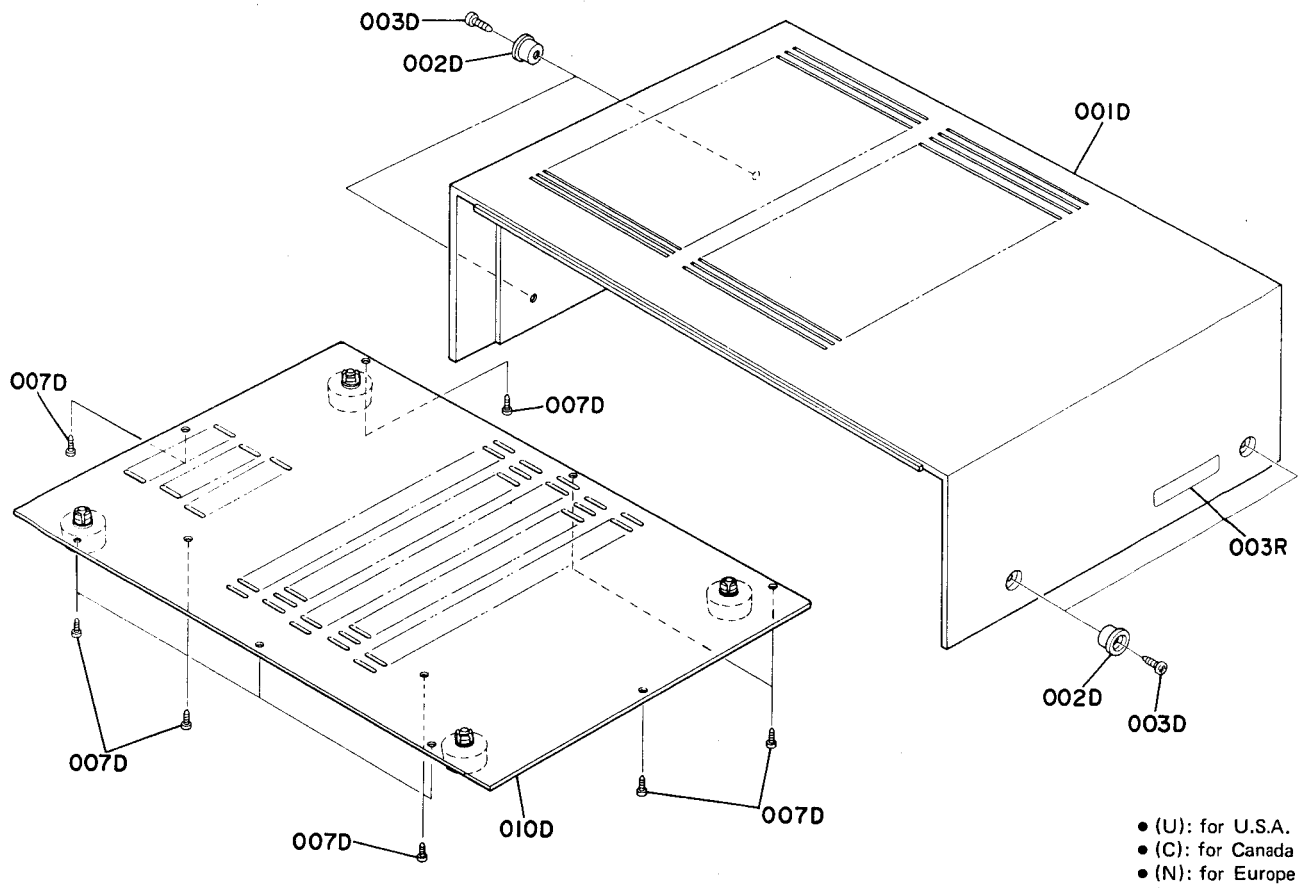


- (U): for U.S.A.
- (C): for Canada
- (N): for Europe
- (A): for Australia

REF. DESIG.	Q'TY U	C	N	A	PART NO.	DESCRIPTION
A	1	1			2133063400	Front Panel Assembly
A1			1	1	2133063410	Front Panel Assembly
001B	1	1	1	1	2112158110	Window
002B	1	1	1	1	2112158120	Window, Meter
003B	1	1			2133063012	Escutcheon
003B			1	1	2133063112	Escutcheon, Low Filter
004B	2	2			2112063044	Escutcheon, Wood
004B			2	2	2112063052	Escutcheon, AL
005B	1	1	1	1	2112160020	Bracket (R)
006B	1	1	1	1	2112160030	Bracket (L)
007B	4	4			51400310A0	B.H. Tapped Screw B3 x 10
007B			4	4	51280306B0	B.H. Tapped Screw B3 x 6
008B	2	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8
009B	2	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8
012B	1	1	1	1	2112303010	Mask
013B	2	2	2	2	2276005050	Clamper
018B	2	2	3	3	2112259020	Bushing
019B	2	2	1	1	2112259030	Bushing

REF. DESIG.	Q'TY U	C	N	A	PART NO.	DESCRIPTION
016B	6	6	7	7	2112154010	Knob
017B	6	6	7	7	2112115010	Spring
023B	1	1	1	1	53118169A0	Hexagon Nut
025B	5	5	5	5	2112154020	Knob
040B	2	2	2	2	51100308A9	B.H. Tapped Screw B3 x 8
041B	3	3	3	3	51280308B0	B.H. Tapped Screw B3 x 8

8.2 [C02-99] TOP COVER

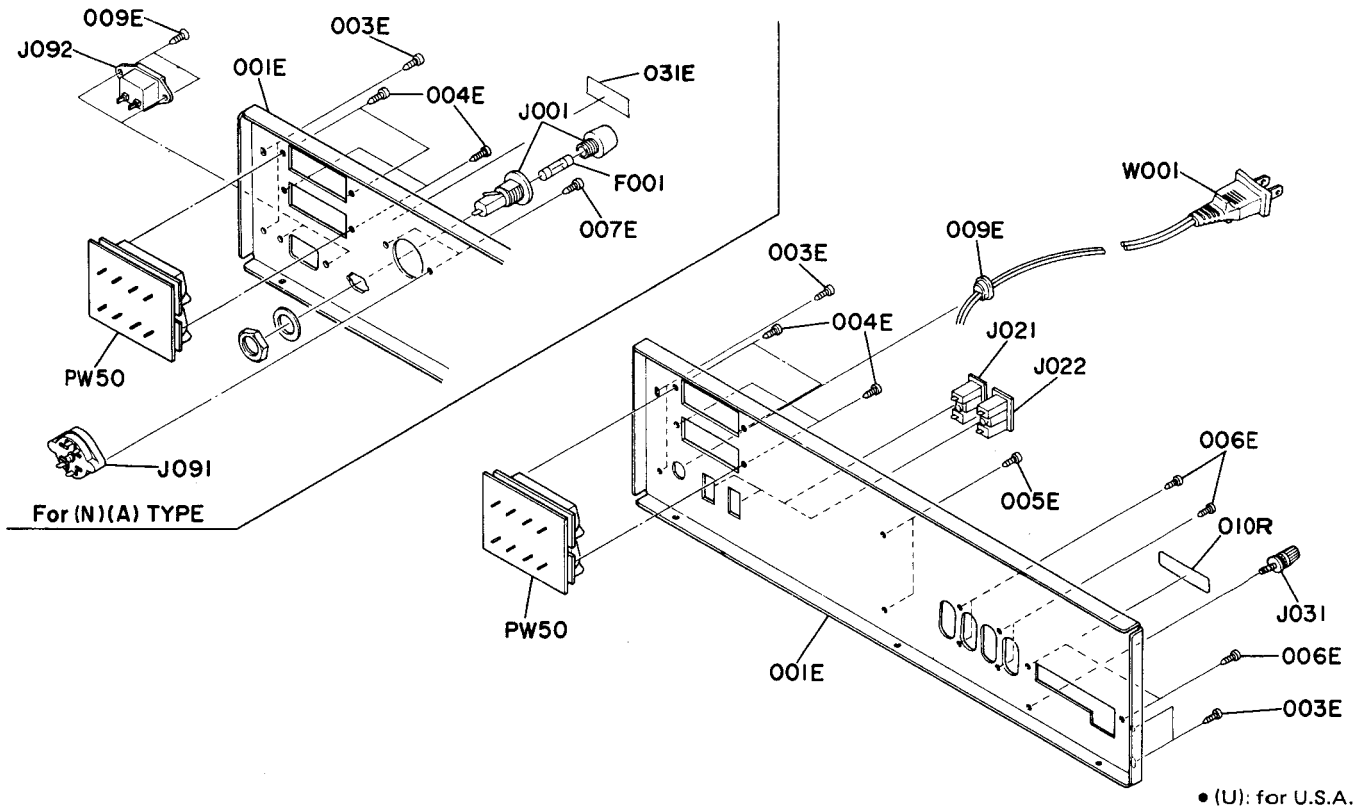


- (U): for U.S.A.
- (C): for Canada
- (N): for Europe
- (A): for Australia

REF. DESIG.	Q'TY U	C	N	A	PART NO.	DESCRIPTION
001D	1		1	1	2112064014	Case, Wood
001D		1			2112064110	Case, Wood
002D	4	4	4	4	3906259010	Bushing
003D	4	4	4	4	51280414U0	B.H. Tapped Screw B4 x 14
007D	10	10	10	10	51280410U0	B.H. Tapped Screw B4 x 10
010D	1	1	1	1	2133257502	Lid, Bottom Cover

REF. DESIG.	Q'TY U	C	N	A	PART NO.	DESCRIPTION
003R	1		1	1	2932861012	Label
003R		1			2911861143	Label

8.3 [C03-99] REAR PANEL

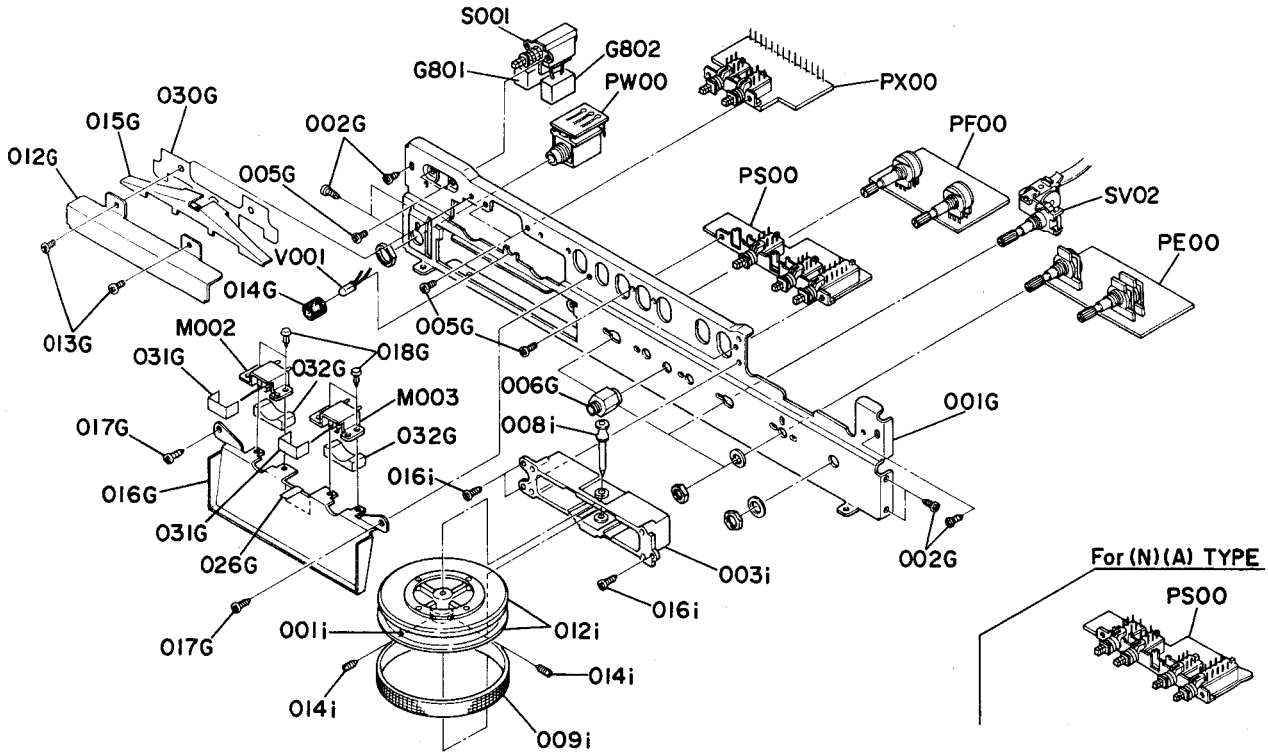


- (U): for U.S.A.
- (C): for Canada
- (N): for Europe
- (A): for Australia

REF. DESIG.	Q'TY U	C	N	A	PART NO.	DESCRIPTION
001E	1				2133160212	Bracket, Rear Panel
001E		1			2133160252	Bracket, Rear Panel
001E			1		2133160222	Bracket, Rear Panel
001E				1	2133160232	Bracket, Rear Panel
003E	4	4	4	4	51280308U0	B.H. Tapped Screw B3 x 8
004E	4	4	4	4	51280308U0	B.H. Tapped Screw B3 x 8
005E	2	2	2	2	51280308U0	B.H. Tapped Screw B3 x 8
006E	6	6	6	6	51280308U0	B.H. Tapped Screw B3 x 8
007E			2	2	51280308U0	B.H. Tapped Screw B3 x 8
009E	1	1			1455259030	Bushing
009E			2	2	51420308T0	O.C.H. Tapped Screw 3 x 8
011E				1	2112259040	Bushing
031E			1		4581861010	Label

REF. DESIG.	Q'TY U	C	N	A	PART NO.	DESCRIPTION
⚠F001			1		FS10125800	Fuse 1.25AT 250V
⚠J001			1		YJ08000290	Jack, Fuse Holder
⚠J021	1	1			YJ04000560	Jack, AC Outlet
⚠J022	1	1			YJ04000560	Jack, AC Outlet
J031	1	1	1	1	YL03010240	Terminal, Ground
⚠J091			1		BY05060013	Plug, Voltage Selector
⚠J091				1	BY05030012	Plug, Voltage Selector
⚠J092			1	1	YP04000590	Plug, AC Inlet
⚠W001	1	1			YC01900070	A.C. Power Cord
010R	1	1	1	1	2112265010	Indicator

8.4 [P01-99] FRONT CHASSIS AND GENERAL PARTS

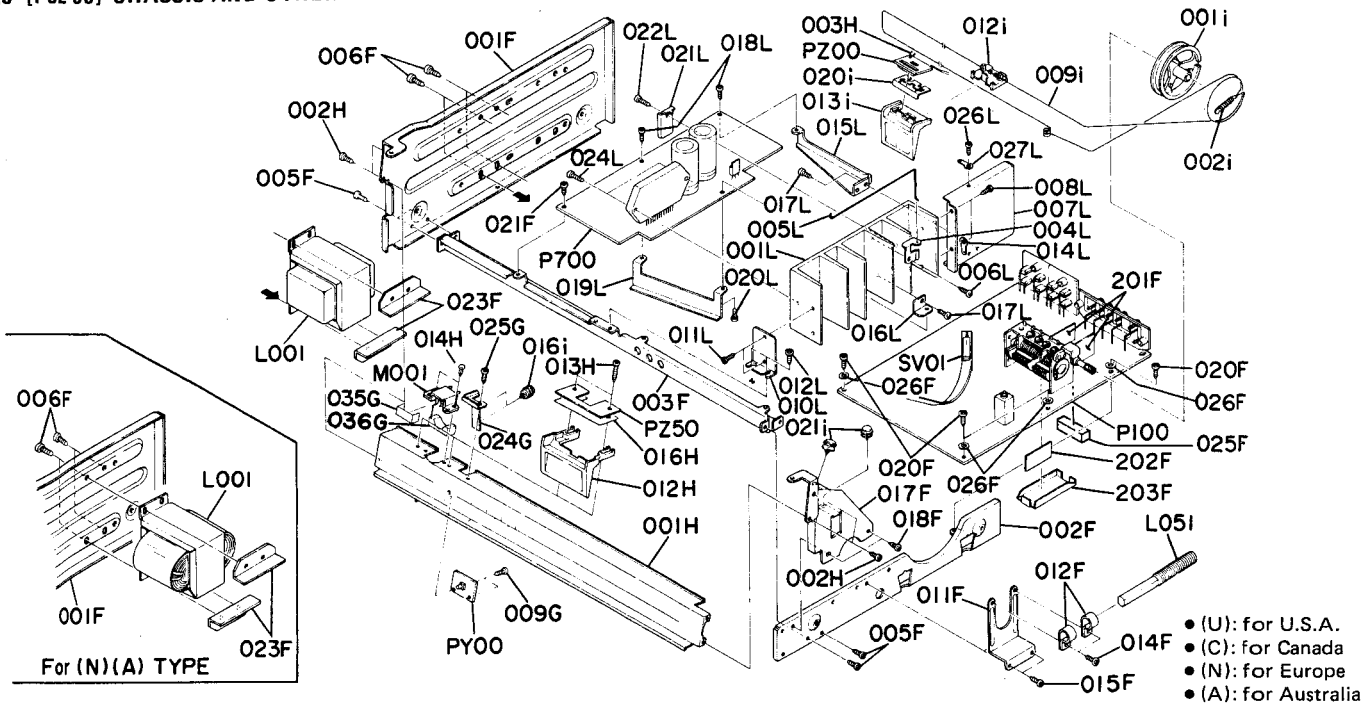


- (U): for U.S.A.
- (C): for Canada
- (N): for Europe
- (A): for Australia

REF. DESIG.	Q'TY U	C	N	A	PART NO.	DESCRIPTION
001G	1	1	1	1	2112160010	Bracket, Front Chassis
002G	6	6	6	6	51280308B0	B.H. Tapped Screw B3 x 8
005G	6	6	6	6	51100308A9	B.H.M. Screw B3 x 8
006G	1	1	1	1	2112114012	Stopper
012G	1	1	1	1	2133303022	Mask
013G	2	2	2	2	2276005050	Clamper
014G	1	1	1	1	2417259010	Bushing
015G	1	1	1	1	2112274030	Reflector
016G	1	1	1	1	2133302020	Dial, Meter
017G	2	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8
018G	4	4	4	4	2276005050	Clamper
026G	1	1	1	1	2112303040	Mask
030G	1	1	1	1	2112053020	Cover
031G	2	2	2	2	2112053010	Cover
032G	2	2	2	2	2112053030	Cover

REF. DESIG.	Q'TY U	C	N	A	PART NO.	DESCRIPTION
B	1	1	1	1	2219273410	Flywheel Assembly
001i	1	1	1	1	2219273012	Flywheel
009i	1	1	1	1	2215353010	Ring
012i	2	2	2	2	2219063030	Escutcheon
014i	2	2	2	2	51690306Q9	Socket Screw 3 × 6
003i	1	1	1	1	2112104500	Retainer
008i	1	1	1	1	2219112012	Shaft
016i	3	3	3	3	51280308B0	B.H. Tapped Screw B3 x 8
M002	1	1	1	1	IM11000020	D.C. Meter
M003	1	1	1	1	IM11000020	D.C. Meter
⚠S001	1	1			SP01010240	Push Switch, Power
⚠S001			1	1	SP02010330	Push Switch, Power
V001	1	1	1	1	IN10080510	Lamp 100mA 8V
SV02	1	1	1	1	SR00040040	Rotary Switch
⚠G801			1	1	DF17223800	Film Cap. 0.022μF ±20%
⚠G802				1	DF17223800	Film Cap. 0.022μF ±20%

8.5 [P02-99] CHASSIS AND OTHER PARTS

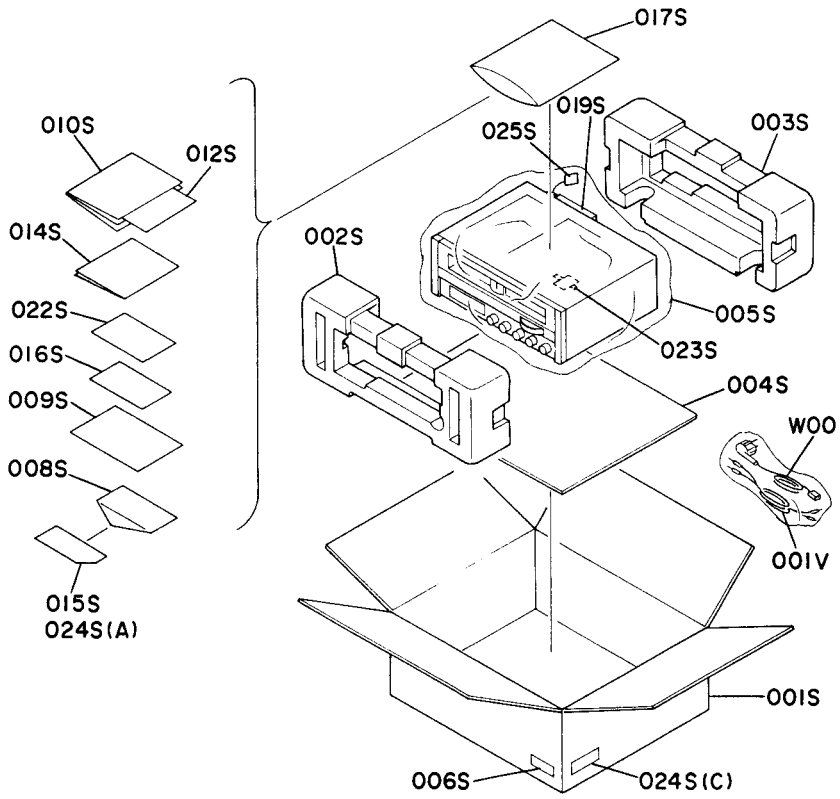


- (U): for U.S.A.
- (C): for Canada
- (N): for Europe
- (A): for Australia

REF. DESIG.	Q'TY U	C	N	A	PART NO.	DESCRIPTION
001F	1	1	1	1	2112105014	Chassis, (L)
002F	1	1	1	1	2112105020	Chassis, (R)
003F	1	1	1	1	2112126012	Stay
005F	4	4	4	4	51280308B0	B.H. Tapped Screw B3 x 8
006F	4	4	4	4	51280410B0	B.H. Tapped Screw B4 x 10
011F	1	1	1	1	2112271010	Holder
012F	2	2	2	2	1502271010	Holder
014F	2	2	2	2	51260310B0	B.H. Tapped Screw B3 x 10
015F	2	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8
017F	1	1	1	1	2116160052	Bracket
018F	2	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8
020F	4	4	4	4	51280308B0	B.H. Tapped Screw B3 x 8
021F	1	1	1	1	51280308B0	B.H. Tapped Screw B3 x 8
023F	2	2	2	2	2133005010	Clamper
025F	1	1	1	1	2116056012	Buffer
026F	4	4	4	4	54110099A0	Washer
009G	2	2	2	2	51282605B0	B.H. Tapped Screw B2.6 x 5
024G	1	1	1	1	2112160072	Bracket
025G	1	1	1	1	51280308B0	B.H. Tapped Screw B3 x 8
032G	1	1	1	1	2112053030	Cover
035G	1	1	1	1	2112053010	Cover
036G	1	1	1	1	2112053030	Cover
001H	1	1	1	1	2112302010	Dial
002H	4	4	4	4	51280308B0	B.H. Tapped Screw B3 x 8
003H	1	1	1	1	72040805A0	String (10)
012H	1	1	1	1	2112274040	Reflector
013H	2	2	2	2	51280312B0	B.H. Tapped Screw B3 x 12
014H	2	2	2	2	2276005050	Clamper
016H	1	1	1	1	2112303050	Mask
001i	1	1	1	1	2112159010	Drum
002i	1	1	1	1	71101689L0	Spring
009i	1	1	1	1	72040805A0	String (180)
012i	1	1	1	1	2112103010	Pointer
013i	1	1	1	1	2112103020	Pointer
016i	2	2	2	2	2276262500	Pulley, (K)
020i	1	1	1	1	2112303030	Mask
021i	2	2	2	2	2276262500	Pulley

REF. DESIG.	Q'TY U	C	N	A	PART NO.	DESCRIPTION
001L	1	1	1	1	2133267012	Heatsink
004L	1	1	1	1	2112271020	Holder
005L	1	1	1	1	2112272013	Pole
006L	1	1	1	1	51280308B0	B.H. Tapped Screw B3 x 8
007L	1	1	1	1	2133160012	Bracket
008L	2	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8
010L	1	1	1	1	2133160030	Bracket
011L	2	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8
012L	2	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8
014L	1	1	1	1	62030049W0	Lug
015L	1	1	1	1	2112160050	Bracket
016L	1	1	1	1	2133160040	Bracket
017L	2	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8
018L	2	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8
021L	1	1	1	1	2207267020	Heatsink
022L	1	1	1	1	51280314B0	B.H. Tapped Screw B3 x 14
024L	2	2	2	2	51280316B0	B.H. Tapped Screw B3 x 16
⚠L001	1				TS16619010	Power Transformer
⚠L001		1			TS16619020	Power Transformer
⚠L001			1		TS16705010	Power Transformer
⚠L001				1	TS16705020	Power Transformer
L051	1				LF11000250	Antenna Coil
L051		1	1	1	LF11000240	Antenna Coil
M001	1	1	1	1	IM11000010	D.C. Meter
SV01	1	1	1	1	SS06040020	Slide Switch
201F	2	2	2	2	2259109040	Shield
202F	1	1	1	1	2259109060	Shield
203F	1	1	1	1	2112109010	Shield
019L	1	1	1	1	2133160020	Bracket
020L	1	1	1	1	51280308B0	B.H. Tapped Screw B3 x 8
026L	1	1	1	1	51280308B0	B.H. Tapped Screw B3 x 8
027L	1	1	1	1	62030049W0	Lug

8.6 [H01-99] PACKING MATERIALS



- (U): for U.S.A.
- (C): for Canada
- (N): for Europe
- (A): for Australia

REF. DESIG.	Q'TY U	C	N	A	PART NO.	DESCRIPTION
001S			1	1	2133801020	Packing Case
001S	1	1			2133801012	Packing Case
002S	1	1	1	1	2112809012	Cushion
003S	1	1	1	1	2112809020	Cushion
004S	1	1	1	1	2918107250	Sheet
005S	1	1	1	1	9090909040	Polyethy Sheet
006S	3				9526019010	Serial NO. Card
006S		3			9526019020	Serial NO. Card
006S			3	3	9526019060	Serial NO. Card
008S		1			2918813010	Envelope
009S	1				2818854020	Guarantee Card
009S		1			2818854040	Guarantee Card
010S	1				2112851010	Instructions
010S		1	1	1	2112851310	Instructions
012S	1				2133851020	Instructions
012S		1			2133851050	Instructions
012S			1	1	2133851030	Instructions

REF. DESIG.	Q'TY U	C	N	A	PART NO.	DESCRIPTION
014S			1		2133856010	Circuit Diagram
015S		1			9630000180	Guarantee Card
016S		1			9650000050	S. Station Card
017S	1	1	1	1	9013025010	Polyethy Bag
019S	1	1	1	1	2864804010	Sleeve
022S		1			2886851100	Instruction
023S			1	1	2731821010	Silicagel
024S		2			9510901020	Label
024S				1	9630000200	Guarantee Card
025S			1	1	9560000040	Hang Tag
001V	1	1	1	1	ZA02000070	EXT. Antenna
⚠W001			1		ZC01805020	A.C. Power Cord
⚠W001				1	ZC01804030	A.C. Power Cord

8.7 ELECTRICAL PARTS

- (U): for U.S.A.
- (C): for Canada
- (N): for Europe
- (A): for Australia

REF. DESIG.	Q'TY U	C	N	A	PART NO.	DESCRIPTION
						P100-TUNER CIRCUIT BOARD
P100	1	1	1	1	YG21120010	P.W. Board, Tuner
	1	1			ZZ21122010	P.W. Board Assembly
			1	1	ZZ21126010	P.W. Board Assembly
						P100-CAPACITORS
CA01	1	1	1	1	DK18103320	Ceramic 0.01μF +80%–20%
CA02	1	1	1	1	DK18103320	Ceramic 0.01μF +80%–20%
CA03	1	1	1	1	EA10601690	Elect 10μF 16V
CA04	1	1	1	1	EA10602530	Elect 10μF 25V
CA05	1	1	1	1	DK18103320	Ceramic 0.01μF +80%–20%
CA06	1	1	1	1	DK18103320	Ceramic 0.01μF +80%–20%
CA07	1	1	1	1	DF17103300	Film 0.01μF ±20%
CA08	1	1	1	1	EA33405030	Elect 0.33μF 50V
CA09	1	1	1	1	EA33505090	Elect 3.3μF 50V
CA10	1	1	1	1	DK18103320	Ceramic 0.01μF +80%–20%
CA11	1	1	1	1	DK18103320	Ceramic 0.01μF +80%–20%
CA12	1	1	1	1	DD15470370	Ceramic 47pF ±5%
CA14	1	1	1	1	DK18103320	Ceramic 0.01μF +80%–20%
CA15	1	1	1	1	DF55391090	Film 390pF ±5%
CA16	1	1	1	1	DD11100370	Ceramic 10pF ±0.5pF
CA17	1	1	1	1	DK18103320	Ceramic 0.01μF +80%–20%
CA18	1	1	1	1	EA22601690	Elect 22μF 16V
CA20	1	1	1	1	EA22601690	Elect 22μF 16V
CA21	1	1	1	1	DK18223320	Ceramic 0.022μF +80%–20%
CV01	1	1	1	1	DK18103320	Ceramic 0.01μF +80%–20%
CV02	1	1	1	1	DK18103320	Ceramic 0.01μF +80%–20%
C101	1	1	1	1	DD11100300	Ceramic 10pF ±0.5pF
C103	1	1	1	1	EA33405030	Elect 0.33μF 50V
C104	1	1	1	1	DK18103320	Ceramic 0.01μF +80%–20%
C105	1	1	1	1	DK18103320	Ceramic 0.01μF +80%–20%
C106	1	1	1	1	DK18223320	Ceramic 0.022μF +80%–20%
C107	1	1	1	1	DD15150300	Ceramic 15pF ±5%
C108	1	1	1	1	DD10050370	Ceramic 5pF ±0.25pF
C109	1	1			DD15150370	Ceramic 10pF ±0.5pF
C109			1	1	DD15200300	Ceramic 20pF ±5%
C110	1	1	1	1	DD15301360	Ceramic 300pF ±5%
C111	1	1	1	1	DK18103320	Ceramic 0.01μF +80%–20%
C113	1	1	1	1	DD10010300	Ceramic 1pF ±0.25pF
C114	1	1	1	1	CT11000080	Trimming 10pF ±0.5pF
C115	1	1	1	1	DD15150340	Ceramic 15pF ±5%
C116	1	1	1	1	DD11100300	Ceramic 10pF ±0.5pF
C117	1	1	1	1	DD15300300	Ceramic 30pF ±5%
C118	1	1	1	1	DD15150300	Ceramic 15pF ±5%
C119	1	1	1	1	DK18223320	Ceramic 0.022μF +80%–20%
C120	1	1	1	1	CA32400100	Variable, FM-3, AM-2
C201	1	1	1	1	DK18103320	Ceramic 0.01μF +80%–20%
C202	1	1	1	1	DK18223320	Ceramic 0.022μF +80%–20%
C203	1	1	1	1	DK18403320	Ceramic 0.04μF +80%–20%
C205	1	1	1	1	DK18403320	Ceramic 0.04μF +80%–20%
C206	1	1	1	1	EA22505030	Elect 2.2μF 50V
C207	1	1	1	1	DK18403320	Ceramic 0.04μF +80%–20%
C208	1	1	1	1	DK18403320	Ceramic 0.04μF +80%–20%
C209	1	1	1	1	EA10505030	Elect 1μF 50V
C210	1	1	1	1	DK18403320	Ceramic 0.04μF +80%–20%
C212	1	1	1	1	DK18403320	Ceramic 0.04μF +80%–20%

REF. DESIG.	Q'TY U	C	N	A	PART NO.	DESCRIPTION
C214	1	1	1	1	DK18403320	Ceramic 0.04μF +80%–20%
C215	1	1	1	1	DK18403320	Ceramic 0.04μF +80%–20%
C216	1	1	1	1	EA47405030	Elect 0.47μF 50V
C217	1	1	1	1	EA10602530	Elect 10μF 25V
C218	1	1	1	1	DK18403320	Ceramic 0.04μF +80%–20%
C219	1	1	1	1	DD15151370	Ceramic 150pF ±5%
C220			1	1	DD15470370	Ceramic 47pF ±5%
C221	1				EA10601690	Elect 10μF 16V
C222	1	1	1	1	DK18403320	Ceramic 0.04μF +80%–20%
C302	1	1	1	1	DF17473300	Film 0.047μF ±20%
C303	1	1	1	1	DF55471090	Film 470pF ±5%
C304	1	1	1	1	EA33505090	Elect 3.3μF 50V
C305	1	1	1	1	EA22505030	Elect 2.2μF 50V
C306	1	1	1	1	EQ22405010	Elect 0.22μF ±20%
C307	1	1	1	1	DD15471360	Ceramic 470pF ±5%
C308	1	1	1	1	EA47601690	Elect 47μF 16V
C309	1	1	1	1	DD15470370	Ceramic 47pF ±5%
C310	1	1	1	1	DD15470370	Ceramic 47pF ±5%
C311	1	1	1	1	EA10602530	Elect 10μF 25V
C312	1	1	1	1	EA10601690	Elect 10μF 16V
C313	1	1	1	1	EA10602530	Elect 10μF 25V
C314	1	1	1	1	EA10602530	Elect 10μF 25V
C315	1	1	1	1	EA47405030	Elect 0.47μF 50V
C316	1	1	1	1	EA47405030	Elect 0.47μF 50V
C317	1	1			DF16272300	Film 2700pF ±10%
C317			1	1	DF16182300	Film 1800pF ±10%
C318	1	1			DF16272300	Film 2700pF ±10%
C318			1	1	DF16182300	Film 1800pF ±10%
C319	1	1	1	1	EA10505030	Elect 1μF 50V
C320	1	1	1	1	EA10505030	Elect 1μF 50V
C321	1	1	1	1	EA10505030	Elect 1μF 50V
C327	1	1	1	1	EA47601690	Elect 47μF 16V
C328	1	1	1	1	DK18403320	Ceramic 0.04μF +80%–20%
C329	1	1	1	1	DK18403320	Ceramic 0.04μF +80%–20%
C330	1	1	1	1	DK18403320	Ceramic 0.04μF +80%–20%
C401	1	1	1	1	EA33505030	Elect 3.3μF 50V
C402	1	1	1	1	EA33505030	Elect 3.3μF 50V
C403	1	1	1	1	DD15470370	Ceramic 47pF ±5%
C404	1	1	1	1	DD15470370	Ceramic 47pF ±5%
C405	1	1	1	1	EA10701090	Elect 100μF 10V
C406	1	1	1	1	EA10701090	Elect 100μF 10V
C407	1	1	1	1	DK16221300	Ceramic 220pF ±5%
C408	1	1	1	1	DK16221300	Ceramic 220pF ±5%
C409	1	1	1	1	DF16123350	Film 0.012μF ±10%
C410	1	1	1	1	DF16123350	Film 0.012μF ±10%
C411	1	1	1	1	DF16332300	Film 0.0033μF ±10%
C412	1	1	1	1	DF16332300	Film 0.0033μF ±10%
C413	1	1	1	1	EA22405030	Elect 0.22μF 50V
C414	1	1	1	1	EA47703590	Elect 470μF 35V
C415	1	1	1	1	EA10505030	Elect 1μF 50V
C416	1	1	1	1	EA10505030	Elect 1μF 50V
C417	1	1	1	1	DK16221300	Ceramic 220pF ±10%
C418	1	1	1	1	DK16221300	Ceramic 220pF ±10%

- (U): for U.S.A.
- (C): for Canada
- (N): for Europe
- (A): for Australia

REF. DESIG.	Q'TY U	C	N	A	PART NO.	DESCRIPTION
						P100-RESISTORS (All Resistors are ±5% and ¼W)
RA02	1	1	1	1	GD05103140	10KΩ
RA03	1	1	1	1	GD05103140	10KΩ
RA04	1	1	1	1	GD05223140	22KΩ
RA05	1	1	1	1	GD05222140	2.2KΩ
RA06	1	1	1	1	GD05121140	120Ω
RA07	1	1	1	1	GD05102140	1KΩ
RA08	1	1	1	1	GD05563140	56KΩ
RA09	1	1	1	1	GD05273140	27KΩ
RA10	1	1	1	1	GD05104140	100KΩ
RA11	1	1	1	1	GD05333140	33KΩ
RA12	1	1	1	1	GD05104140	100KΩ
RA13	1	1	1	1	GD05102140	1KΩ
RA14	1	1	1	1	GD05222140	2.2KΩ
RA15	1	1	1	1	GD05470140	47Ω
RA18	1	1	1	1	GD05333140	33KΩ
R101	1	1	1	1	GD05104140	100KΩ
R102	1	1	1	1	GD05680140	68Ω
R103	1	1	1	1	GD05101140	100Ω
R104	1	1	1	1	GD05101140	100Ω
R105	1	1	1	1	GD05223140	22KΩ
R107	1	1	1	1	GD05223140	22KΩ
R108	1	1	1	1	GD05472140	4.7KΩ
R109	1	1	1	1	GD05102140	1KΩ
R110	1	1	1	1	GG05183140	18KΩ
R111	1	1	1	1	GD05103140	10KΩ
R112	1	1	1	1	GD05272140	2.7KΩ
R113	1	1	1	1	GD05103140	10KΩ
R114	1	1	1	1	GD05101140	100Ω
R115	1	1	1	1	GG05470140	47Ω
R201	1	1	1	1	GD05331140	330Ω
R202	1	1	1	1	GD05272140	2.7KΩ
R203	1	1	1	1	GD05153140	15KΩ
R204	1	1	1	1	GD05331140	330Ω
R205	1	1	1	1	GD05561140	560Ω
R207	1	1	1	1	RA05030090	50KΩ (B) Trimming
R208	1	1	1	1	GD05104140	100KΩ
R209	1	1	1	1	GD05103140	10KΩ
R210	1	1	1	1	GD05222140	2.2KΩ
R211	1	1	1	1	GD05124140	120KΩ
R212	1	1	1	1	GD05682140	6.8KΩ
R213	1	1	1	1	GG05470140	47Ω
R214	1	1	1	1	GD05103140	10KΩ
R215	1	1	1	1	GD05332140	3.3KΩ
R216	1	1	1	1	GD05331140	330Ω
R219	1	1	1	1	GD05154140	150KΩ
R221	1	1	1	1	GD05682140	6.8KΩ
R227	1	1	1	1	GD05473140	47KΩ
R301	1	1	1	1	GD05473140	47KΩ
R302	1	1	1	1	GD05222140	2.2KΩ
R303	1	1	1	1	GD05153140	15KΩ

REF. DESIG.	Q'TY U	C	N	A	PART NO.	DESCRIPTION
R304	1	1	1	1	RA05020160	5KΩ (B) Trimming
R305	1	1	1	1	GD05102140	1KΩ
R306	1	1	1	1	GG05101140	100Ω
R307	1	1	1	1	GD05223140	22KΩ
R308	1	1	1	1	GD05223140	22KΩ
R309	1	1	1	1	GD05473140	47KΩ
R310	1	1	1	1	GD05473140	47KΩ
R311	1	1	1	1	GD05393140	39KΩ
R312	1	1	1	1	GD05393140	39KΩ
R313	1	1	1	1	RA05040090	500KΩ (B) Trimming
R315	1	1	1	1	GD05472140	4.7KΩ
R316	1	1	1	1	GD05472140	4.7KΩ
R317	1	1	1	1	GD05472140	4.7KΩ
R318	1	1	1	1	GD05472140	4.7KΩ
R319	1	1	1	1	GD05273140	27KΩ
R320	1	1	1	1	GD05273140	27KΩ
R321	1	1	1	1	GD05473140	47KΩ
R322	1	1	1	1	GD05184140	180KΩ
R323	1	1	1	1	GD05564140	560KΩ
R324	1	1	1	1	GD05564140	560KΩ
R325	1	1	1	1	GD05392140	3.9KΩ
R326	1	1	1	1	GD05392140	3.9KΩ
R327	1	1	1	1	GD05821140	820Ω
R328	1	1	1	1	GD05821140	820Ω
R329	1	1	1	1	GD05473140	47KΩ
R330	1	1	1	1	GD05473140	47KΩ
R331	1	1	1	1	GD05101140	100Ω
R332	1	1	1	1	GD05101140	100Ω
R333	1	1	1	1	GD05272140	2.7KΩ
R334	1	1	1	1	GD05104140	100KΩ
R335	1	1	1	1	GD05332140	3.3KΩ
R337	1	1	1	1	GD05183140	18KΩ
R401	1	1	1	1	GD05222140	2.2KΩ
R402	1	1	1	1	GD05222140	2.2KΩ
R403	1	1	1	1	GD05471140	470Ω
R404	1	1	1	1	GD05471140	470Ω
R405	1	1	1	1	GD05563140	56KΩ
R406	1	1	1	1	GD05563140	56KΩ
R407	1	1	1	1	GD05394140	390KΩ
R408	1	1	1	1	GD05394140	390KΩ
R409	1	1	1	1	GD05184140	180KΩ
R410	1	1	1	1	GD05184140	180KΩ
R411	1	1	1	1	GD05274140	270KΩ
R412	1	1	1	1	GD05274140	270KΩ
R413	1	1	1	1	GD05223140	22KΩ
R414	1	1	1	1	GD05223140	22KΩ
R417	1	1	1	1	GD05224140	220KΩ
R418	1	1	1	1	GD05224140	220KΩ
R419	1	1	1	1	GD05223140	22KΩ
R420	1	1	1	1	GD05223140	22KΩ
R421	1	1	1	1	GG05221140	220Ω
R422	1	1	1	1	GD05184140	180KΩ
R423	1	1	1	1	GD05471140	470Ω
R424	1	1	1	1	GD05471140	470Ω

- (U): for U.S.A.
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REF. DESIG.	Q'TY U	C	N	A	PART NO.	DESCRIPTION
						P100-SEMICONDUCTORS
QA01	1	1	1	1	HC10025060	IC μPC1178C
QA02	1	1	1	1	HV00006120	Varistor MV-203
QA03	1	1	1	1	HT326342B0	Transistor 2SC2634(S or T)
Q101	1	1	1	1	HF400451B0	F.E.T. 3SK45(B)
Q102	1	1	1	1	HT310471C0	Transistor 2SC1047(C)
Q103	1	1	1	1	HT308291C0	Transistor 2SC829(C)
Q201	1	1	1	1	HT308291C0	Transistor 2SC829(C)
Q202	1	1	1	1	HC10028030	IC LA1231
Q204	1	1	1	1	HD20011050	Diode 1S1555
Q301	1	1	1	1	HC10024060	IC μPC11610
Q302	1	1	1	1	HD20011050	Diode 1S1555
Q303	1	1	1	1	HT326342B0	Transistor 2SC2634(S or T)
Q304	1	1	1	1	HT326342B0	Transistor 2SC2634(S or T)
Q305	1	1	1	1	HD20011050	Diode 1S1555
Q401	1	1	1	1	HC10012060	IC μPC1024H
Q402	1	1	1	1	HC10012060	IC μPC1024H
						P100-MISCELLANEOUS
FA01	1	1	1	1	FF10045200	Ceramic Filter 450KHz
F201	1	1	1	1	FF11070050	Ceramic Filter 10.7MD1
F202	1	1			FF11070050	Ceramic Filter 10.7MD1
F203	1	1			FF11070050	Ceramic Filter 10.7MD1
JV01	1	1	1	1	YT02040280	Terminal, RCA Phono/Aux
JV02	1	1	1	1	YT02040280	Terminal, RCA Tape In/Out
JV03	1	1	1	1	YT01050010	Terminal, Antenna
LA01	1	1	1	1	LC11540020	Choke Coil 150μH
LA04	1	1	1	1	LO10010480	OSC Coil
LA05	1	1	1	1	LI10010730	I.F.T. 450KHz
LA06	1	1	1	1	LI10010740	I.F.T. 450KHz
L101	1	1	1	1	LA12028040	Ant. Coil
L102	1	1	1	1	LL24800030	Coil
L103	1	1	1	1	LK11800030	Coil
L104	1	1	1	1	LC17510010	Choke Coil 0.75μH
L105	1	1	1	1	LO12036010	OSC Coil
L106	1	1	1	1	LI10016010	I.F.T.
L201	1	1	1	1	LI14016240	I.F.T.
L203	1	1	1	1	LC11830010	Choke Coil 18μH
L301	1	1	1	1	LS20013010	M.P.X. Coil
L302	1	1	1	1	LS20013010	M.P.X. Coil
KS00	1	1	1	1	SR06040130	Rotary Switch, Selector

REF. DESIG.	Q'TY U	C	N	A	PART NO.	DESCRIPTION
						P700-MAIN AMP./POWER SUPPLY CIRCUIT BOARD
P700	1	1	1	1	YK213310D0	P.W. Board Main Amp./ Power Supply
	1				ZZ213310D0	P.W. Board Assembly
		1			ZZ213320D0	P.W. Board Assembly
			1		ZZ213380D0	P.W. Board Assembly
				1	ZZ213370D0	P.W. Board Assembly
						P700-CAPACITORS
C701	1	1	1	1	EA47505030	Elect 4.7μF 50V
C702	1	1	1	1	EA47505030	Elect 4.7μF 50V
C703	1	1	1	1	DD15221370	Ceramic 220pF ±5%
C704	1	1	1	1	DD15221370	Ceramic 220pF ±5%
C705	1	1	1	1	DD10050370	Ceramic 0.5pF ±0.25pF
C706	1	1	1	1	DD10050370	Ceramic 0.5pF ±0.25pF
C707	1	1	1	1	EA47605030	Elect 47μF 50V
C708	1	1	1	1	EA47605030	Elect 47μF 50V
C711	1	1	1	1	DF17104300	Film 0.1μF ±20%
C712	1	1	1	1	DF17104300	Film 0.1μF ±20%
C713	1	1	1	1	EA10703590	Elect 100μF 35V
C715	1	1	1	1	EA10605030	Elect 10μF 50V
C716	1	1	1	1	EA10605030	Elect 10μF 50V
⚠C801	1	1	1	1	EB68804520	Elect 6800μF 45V
⚠C802	1	1	1	1	EB68804520	Elect 6800μF 45V
C803	1	1	1	1	EA47706390	Elect 470μF 63V
C804	1	1	1	1	EA22605090	Elect 22μF 50V
C805	1	1	1	1	EA22701690	Elect 220μF 16V
C806	1	1	1	1	EA10602590	Elect 10μF 25V
C807	1	1	1	1	EA10605030	Elect 10μF 50V
C808	1	1	1	1	DK18103320	Ceramic 0.01μF +80%–20%
						P700-RESISTORS (All Resistors are ±5% and ¼W)
R701	1	1	1	1	GD05102140	1KΩ
R702	1	1	1	1	GD05102140	1KΩ
R703	1	1	1	1	GD05333140	33KΩ
R704	1	1	1	1	GD05333140	33KΩ
R705	1	1	1	1	GD05272140	2.7KΩ
R706	1	1	1	1	GD05272140	2.7KΩ
R707	1	1	1	1	GD05333140	33KΩ
R708	1	1	1	1	GD05333140	33KΩ
R709	1	1	1	1	GD05332140	3.3KΩ
R710	1	1	1	1	GD05332140	3.3KΩ
R711	1	1	1	1	GD05102140	1KΩ
R712	1	1	1	1	GD05102140	1KΩ
R713	1	1	1	1	GO10332020	0.33Ω ±10% 2W
R714	1	1	1	1	GO10332020	0.33Ω ±10% 2W
R715	1	1	1	1	RC10047120	4.7Ω ±10% ½W
R716	1	1	1	1	RC10047120	4.7Ω ±10% ½W
R717	1	1	1	1	RC10022120	2.2Ω ±10% ½W
R718	1	1	1	1	RC10022120	2.2Ω ±10% ½W
R719	1	1	1	1	GG05101120	100Ω ½W
R721	1	1	1	1	GD05183140	18KΩ
R722	1	1	1	1	GD05183140	18KΩ

- (U): for U.S.A.
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REF. DESIG.	Q'TY U	C	N	A	PART NO.	DESCRIPTION
R801	1	1	1	1	GG05272140	2.7KΩ
R802	1	1	1	1	GD05102140	1KΩ
R804	1	1	1	1	GD05103140	10KΩ
R805	1	1	1	1	GD05822140	8.2KΩ
R806	1	1	1	1	GP05151030	150Ω 3W
R807	1	1			RC10225120	2.2MΩ ±10% ½W
						P700-SEMICONDUCTORS
⚠Q701	1	1	1	1	HC10035030	IC STK-463N
⚠Q801	1	1	1	1	HD20009290	Diode S2V-20
⚠Q802	1	1	1	1	HD20009290	Diode S2V-20
⚠Q803	1	1	1	1	HD20009290	Diode S2V-20
⚠Q804	1	1	1	1	HD20009290	Diode S2V-20
Q805	1	1	1	1	HT403131Q0	Transistor 2SD313E
Q806	1	1	1	1	HT309452A0	Transistor 2SC945 (Q or R)
Q807	1	1	1	1	HD30021090	Zener BZ-140
Q808	1	1	1	1	HD20005010	Diode W06B
						P700-MISCELLANEOUS
F701	1	1			FS20350910	Fuse 3.5A 250V
F701			1	1	FS10250800	Fuse 2.5AT 250V
F702	1	1			FS20350910	Fuse 3.5A 250V
F702			1	1	FS10250800	Fuse 2.5AT 250V
⚠F801	1				FS10200060	Fuse 2A 250V
⚠F802		1			FS10100090	Fuse 1A 250V
⚠F802			1	1	FS10100800	Fuse 1AT 250V
⚠F803		1			FS10100090	Fuse 1A 250V
⚠F803			1	1	FS10100800	Fuse 1AT 250V
J701 ≀ J704			4	4	YJ08000270	Jack, Fuse Holder
J801	1				YJ08000170	Jack, Fuse Holder
J802	1				YJ08000170	Jack, Fuse Holder
J803		1			YJ08000170	Jack, Fuse Holder
J803			1	1	YJ08000270	Jack, Fuse Holder
J804		1			YJ08000170	Jack, Fuse Holder
J804			1	1	YJ08000270	Jack, Fuse Holder
J805		1			YJ08000170	Jack, Fuse Holder
J805			1	1	YJ08000270	Jack, Fuse Holder
J806		1			YJ08000170	Jack, Fuse Holder
J806			1	1	YJ08000270	Jack, Fuse Holder
⚠G801	1	1			DK18103530	Ceramic Cap. 0.01μF
L701	1	1	1	1	LC21020020	Coil
L702	1	1	1	1	LC21020020	Coil
						PE00-VOLUME/BALANCE CIRCUIT BOARD
PE00	1	1	1	1	YK213310B0	P.W. Board, Volume/Balance
	1	1	1	1	ZZ213310B0	P.W. Board, Assembly
CE03	1	1	1	1	EA22405030	Elect 0.22μF 50V
CE04	1	1	1	1	EA33405030	Elect 0.33μF 50V
CE05	1	1	1	1	EA10602530	Elect 10μF 25V
RE01	1	1	1	1	RM05030800	Variable Resist, 50KΩ(B)
RE02	1	1	1	1	RK02040080	Variable Resist, 200KΩ(W)
RE03	1	1	1	1	GD05104140	Resistor 100KΩ ±5% ¼W
RE04	1	1	1	1	GD05104140	Resistor 100KΩ ±5% ¼W
RE05	1	1	1	1	GD05474140	Resistor 470KΩ ±5% ¼W
RE06	1	1	1	1	GD05474140	Resistor 470KΩ ±5% ¼W
QE01	1	1	1	1	HT309452A0	Transistor 2SC945
QE02	1	1	1	1	HT309452A0	Transistor 2SC945
QE03	1	1	1	1	HT107332A0	Transistor 2SA733

REF. DESIG.	Q'TY U	C	N	A	PART NO.	DESCRIPTION
						PF00-TONE CONTROL CIRCUIT BOARD
PF00	1	1	1	1	YK213310C0	P.W. Board, Tone Control
	1	1	1	1	ZZ213310C0	P.W. Board Assembly
						PF00-CAPACITORS
CF01	1	1	1	1	DF17562300	Film 5600pF ±20%
CF02	1	1	1	1	DF17562300	Film 5600pF ±20%
CF03	1	1	1	1	DF17473300	Film 0.047μF ±20% -20%
CF04	1	1	1	1	DF17473300	Film 0.047μF ±20% -20%
CF05	1	1	1	1	DF17152300	Film 1500pF ±20%
CF06	1	1	1	1	DF17152300	Film 1500pF ±20%
CF07	1	1	1	1	DF17153300	Film 0.015μF ±20%
CF08	1	1	1	1	DF17153300	Film 0.015μF ±20%
CF09	1	1	1	1	DD15101370	Ceramic 100pF
CF10	1	1	1	1	DD15101370	Ceramic 100pF
						PF00-RESISTORS (All Resistors are ±5% and ¼W)
RF03	1	1	1	1	GD05183140	18KΩ
RF04	1	1	1	1	GD05183140	18KΩ
RF07	1	1	1	1	GD05103140	10KΩ
RF08	1	1	1	1	GD05103140	10KΩ
RF09	1	1	1	1	GD05183140	18KΩ
RF10	1	1	1	1	GD05183140	18KΩ
RF11	1	1	1	1	GD05332140	3.3KΩ
RF12	1	1	1	1	GD05332140	3.3KΩ
RF13	1	1	1	1	GD05222140	2.2KΩ
RF14	1	1	1	1	GD05222140	2.2KΩ
RF15	1	1	1	1	RM01040290	100KΩ (C) Variable
RF16	1	1	1	1	RM01040290	100KΩ (C) Variable
						PS00-PUSH SWITCH CIRCUIT BOARD
PS00	1	1	1	1	YK213310A0	P.W. Board, Push Switch
	1	1			ZZ213310A0	P.W. Board Assembly
			1	1	ZZ213380A0	P.W. Board Assembly
						PS00-CAPACITORS
CS01	1	1	1	1	DF17823300	Film 0.082μF ±20%
CS02	1	1	1	1	DF17823300	Film 0.082μF ±20%
CS03	1	1	1	1	DF17182300	Film 0.0018μF ±20%
CS04	1	1	1	1	DF17182300	Film 0.0018μF ±20%
CS05			1	1	EA33601090	Elect 33μF 10V
CS06			1	1	EA33601090	Elect 33μF 10V
CS07	1	1	1	1	EA22701090	Elect 220μF 10V
CS08	1	1	1	1	EA22701090	Elect 220μF 10V
						PS00-RESISTORS (All Resistors are ±5% and ¼W)
RS01	1	1	1	1	GD05332140	3.3KΩ
RS02	1	1	1	1	GD05332140	3.3KΩ
RS03	1	1	1	1	GD05332140	3.3KΩ
RS04	1	1	1	1	GD05332140	3.3KΩ
RS05	1	1	1	1	GD05392140	3.9KΩ
RS06	1	1	1	1	GD05392140	3.9KΩ
RS07	1	1	1	1	GD05562140	5.6KΩ
RS08	1	1	1	1	GD05562140	5.6KΩ
RS09			1	1	GD05223140	22KΩ
RS10			1	1	GD05223140	22KΩ
						PS00-MISCELLANEOUS
SS01	1	1			SP04030160	Push Switch
SS01			1	1	SP04040210	Push Switch
WS01	1	1	1	1	YU12110010	Jumper Lead
WS02	1	1	1	1	YU12110010	Jumper Lead

- (U): for U.S.A.
- (C): for Canada
- (N): for Europe
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REF. DESIG.	Q'TY U	C	N	A	PART NO.	DESCRIPTION
						PW00-HEADPHONE JACK CIRCUIT BOARD
PW00	1	1	1	1	YK213310G0	P.W. Board, Headphone Jack
	1	1	1	1	ZZ213310G0	P.W. Board Assembly
JW01	1	1	1	1	YJ01001340	Jack, Headphone
						PW50-SPK. TERMINAL CIRCUIT BOARD
PW50	1	1	1	1	YK213310F0	P.W. Board, SPK. Terminal
	1	1	1	1	ZZ213310F0	P.W. Board Assembly
JW51	1	1	1	1	YT03040180	Terminal
JW52	1	1	1	1	YT03040180	Terminal
						PX00-POWER METER/SPK SW CIRCUIT BOARD
PX00	1	1	1	1	YK213310E0	P.W.Board, Power Meter/ SPK SW
	1	1	1	1	ZZ213310E0	P.W. Board Assembly
						PX00-CAPACITORS
CX01	1	1	1	1	DF17223300	Film 0.022μF ±20%
CX02	1	1	1	1	DF17223300	Film 0.022μF ±20%
CX03	1	1	1	1	EA47601090	Elect 47μF 10V
CX04	1	1	1	1	EA47601090	Elect 47μF 10V
						PX00-RESISTORS (All Resistors are ±5% and ¼W)
RX01	1	1	1	1	GA05331010	330Ω 1W
RX02	1	1	1	1	GA05331010	330Ω 1W
RX03	1	1	1	1	GA05221010	220Ω 1W
RX04	1	1	1	1	GA05221010	220Ω 1W
RX05	1	1	1	1	GG05120140	12Ω
RX06	1	1	1	1	GG05120140	12Ω
RX09	1	1	1	1	RA01020110	1KΩ(B) Trimming
RX10	1	1	1	1	RA01020110	1KΩ(B) Trimming
						PX00-SEMICONDUCTORS
QX01	1	1	1	1	HD20003210	Diode 1S2471
QX02	1	1	1	1	HD20003210	Diode 1S2471
QX03	1	1	1	1	HD10001010	Diode 1N34A
QX04	1	1	1	1	HD10001010	Diode 1N34A
						PX00-SWITCH
SX01	1	1	1	1	SP02020420	Push Switch, Speaker
						PY00-STEREO LED CIRCUIT BOARD
PY00	1	1	1	1	YK213310H0	P.W. Board; Stereo LED
	1	1	1	1	ZZ213310H0	P.W. Board Assembly
QY01	1	1	1	1	HI10009020	L.E.D. LN26RP
RY01	1	1	1	1	GD05222141	Resistor 2.2KΩ ±5% ¼W

REF. DESIG.	Q'TY U	C	N	A	PART NO.	DESCRIPTION
						PZ00-DIAL POINTER LAMP CIRCUIT BOARD
PZ00	1	1	1	1	YK213310J0	P.W. Board, Dial Pointer Lamp
	1	1	1	1	ZZ213310J0	P.W. Board Assembly
VZ01	1	1	1	1	IN10080460	Lamp 100mA 8V
						PZ50-TUNING METER LAMP CIRCUIT BOARD
PZ50	1	1	1	1	YK213310I0	P.W. Board, Tuning Meter Lamp
	1	1	1	1	ZZ213310I0	P.W. Board Assembly
VZ51	1	1	1	1	IN10080460	Lamp 100mA 8V

(W01-99)	Assembly and Wiring
(T01-99)	Adjustment
(X01-00)	Correction

9. TECHNICAL SPECIFICATIONS

[FOR U.S.A. & CANADA]

AMPLIFIER SECTION

RATED POWER OUTPUT, MINIMUM CONTINUOUS AVERAGE POWER
PER CHANNEL, BOTH CHANNELS DRIVEN ..... 25 W
POWER BAND ..... 20 Hz to 20 kHz
TOTAL HORMONIC DISTORTION 0.2%
LOAD IMPEDANCE ..... 4 OHMS
RATED POWER OUTPUT, MINIMUM CONTINUOUS AVERAGE POWER
PER CHANNEL, BOTH CHANNELS DRIVEN ..... 20 W
POWER BAND ..... 20 Hz to 20 kHz
TOTAL HARMONIC DISTORTION 0.09%
LOAD IMPEDANCE ..... 8 OHMS

I.M. Distortion
(I.H.F. method, 60 Hz and 7 kHz mixed 4:1 at rated power output)
at 8 ohm load impedance 0.09%
at 4 ohm load impedance 0.2%
Damping Factor (at 20 Hz) 36

PREAMPLIFIER SECTION

Phono
Imput Oeverload at 1 kHz ..... 130 mV
Equivalent Input Noise ("A" Weighted) ..... 0.5 μV
Dynamic Range
(Dynamic Range is the ratio of input overload to equivalent input noise) ..... 108 dB
Input Sensitivity ..... 2.7 mV
Input Impedance ..... 47 kohms
Input Capacitance ..... 220 pF
Frequency Response, RIAA 20 Hz to 20 kHz ..... ±0.75 dB
Signal-to-Noise Ratio ("A" Weighted)
(at rated output and 10 mV input) ..... 84 dB
High Level (Aux and Tape)
Input Sensitivity ..... 160 mV
Input Impedance ..... 20 kohms
Frequency Response
(includes power amp) ..... 15 Hz to 40 kHz ± 1.0 dB
Signal-to-Noise Ratio ("A" Weighted)
(ref. to rated output and 775 mV input) ..... 96 dB
Output Levels
Tape Out (ref. 10 mV at Phone inputs) ..... 580 mV
Output Impedance
Tape Out ..... 500 ohms

FM TUNER SECTION

Sensitivity
IHF Usable ..... 10.8 dBf (1.9 μV)
IHF 50 dB Quieting (Mono) ..... 14.9 dBf (2.9 μV)
(Stereo) ..... 37.7 dBf (42 μV)
Quieting Slope (Mono)
RF Input for 30 dB Quieting ..... 9.3 dBf (1.6 μV)
Quieting at:
20 dBf (5.5 μV) ..... 55 dB
25 dBf (10 μV) ..... 60 dB
40 dBf (55 μV) ..... 70 dB
65 dBf (1000 μV) ..... 75 dB

Quieting Slope (Stereo)
- Quieting at:
  - 30 dBf (17 μV) . . . . . 40 dB
  - 40 dBf (55 μV) . . . . . 52 dB
  - 50 dBf (173 μV) . . . . . 60 dB
  - 65 dBf (1000 μV) . . . . . 68 dB

Distortion (Mono) at 65 dBf (1000 μV)
- 100 Hz 0.2%
- 1000 Hz 0.15%
- 6000 Hz 0.2%

Distortion (Stereo) at 65 dBf (1000 μV)
- 100 Hz 0.35%
- 1000 Hz 0.3%
- 6000 Hz 0.5%

Frequency Response
- 30 Hz to 15 kHz
  - Mono and Stereo . . . . . +0.5 dB, −1.0 dB

Capture Ratio at 65 dBf (1000 μV) . . . . . 1.0 dB
Alternate Channel Selectivity . . . . . 60 dB
Spurious Response Rejection . . . . . 80 dB
Image Response Rejection . . . . . 50 dB
I.F. Rejection (Balanced) . . . . . 80 dB
A.M. Suppression . . . . . 50 dB
Stereo Separation at 1 kHz . . . . . 45 dB
Subcarrier Rejection . . . . . 60 dB

AM TUNER SECTION

IHF Usable Sensitivity . . . . . 20 μV
Signal-to-Noise Ratio . . . . . 50 dB
Alternate Channel Selectivity . . . . . 45 dB
Image Rejection . . . . . 45 dB
Spurious Response Rejection . . . . . 55 dB
I.F. Rejection . . . . . 40 dB

GENERAL

Power Requirements . . . . . 120 VAC, 60 Hz
Power Consumption at rated output, both channels operating . . . . . 150 W
Idling Power (Volume Control at zero) . . . . . 28 W
Dimensions:
- Panel Width . . . . . 466 mm (18-3/8")
- Panel Height . . . . . 140 mm (5-1/2")
- Depth . . . . . 323 mm (12-3/4")

Weight:
- Unit alone . . . . . 6.5 kg (14.3 lbs)
- Packed for Shipment . . . . . 8.5 kg (18.7 lbs)

[FOR EUROPE]

AUDIO SECTION

POWER OUTPUT, DIN, 4 OHM, PER CHANNEL ..... **41 W**
POWER OUTPUT, FTC AMERICAN STANDARDS, 4 OHM, PER CHANNEL ..... **25 W**
TOTAL HARMONIC DISTORTION AT RATED POWER OUTPUT **0.3%**
I.M. DISTORTION AT RATED POWER OUTPUT
(250 Hz AND 8 kHz MIXED, AMPLITUDE RATIO 4:1) **0.3%**
POWER OUTPUT, DIN, 8 OHM, PER CHANNEL ..... **32 W**
POWER OUTPUT, FTC AMERICAN STANDARDS, 8 OHM, PER CHANNEL ..... **20 W**
TOTAL HARMONIC DISTORTION AT RATED POWER OUTPUT **0.1%**
I.M. DISTORTION AT RATED POWER OUTPUT
(250 Hz AND 8 kHz MIXED, AMPLITUDE RATIO 4:1) **0.1%**
POWER BANDWIDTH ..... **10 Hz ~ 40 kHz**

	(40 Hz)	(1 kHz)	(12.5 kHz)
DAMPING FACTOR 8 OHM	50	50	45

Frequency Response
Phono (RIAA) ..... ±1.0 dB
Aux (±1 dB) ..... 18 Hz ~ 30 kHz
Signal-to-Noise Ratio
Phono ..... 70 dB
Aux ..... 80 dB
Input Terminals
Phono: Input Impedance ..... 47 k ohms
Input Capacitance ..... 100 pF
Input Sensitivity ..... 2.7 mV
Overload Margin ..... 35 dB
Aux: Input Impedance ..... 20 k ohms
Input Sensitivity ..... 160 mV
Phono Equivalent Input Noise ..... 1.4 μV
Phono Dynamic Range (Ratio of input overload to equivalent input noise) ..... 100 dB
Channel Balance (0 to −40 dB/40 Hz ~ 16 kHz)
Phono ..... 2.5 dB
Aux ..... 2.0 dB
Interchannel Crosstalk
Phono 1 kHz ..... 35 dB
Aux 1 kHz ..... 50 dB
Tape 1 kHz ..... 50 dB
Intersource Crosstalk (Worst Point)
1 kHz ..... 50 dB
Output Voltage, 1 kHz
Tape Out ..... 450 mV
Output Impedance, 1 kHz
Tape Out ..... 500 ohms
Headphone Jack Load Impedance ..... 8 ohms

FM TUNER SECTION

Frequency Range ..... 87.5 ~ 108 MHz
Usable Sensitivity 40 kHz Deviation, 98 MHz
Mono, S/N 26 dB ..... 1.6 μV
Stereo, S/N 46 dB ..... 40 μV
Alternate Channel Selectivity, 98 MHz±300 kHz ..... 50 dB
Image Response Rejection, 98 MHz ..... 54 dB
IF Rejection, 98 MHz ..... 100 dB
Spurious Response Rejection, 98 MHz ..... 90 dB
AM Suppression, 98 MHz ..... 57 dB

Signal-to-Noise Ratio, 98 MHz
- Unweighted: Mono . . . 72 dB
- Stereo . . . 65 dB
- Weighted: Mono . . . 62 dB
- Stereo . . . 55 dB

Pilot Signal & Subcarrier Rejection
- 19 kHz . . . 60 dB
- 38 kHz . . . 60 dB

Total Harmonic Distortion, 98 MHz
- Mono . . . 0.2%
- Stereo . . . 0.4%

Frequency Response
- 30 Hz ~ 15 kHz . . . +0.3 dB, −1.0 dB

Separation
- Stereo . . . 45 dB

Channel Balance . . . 0.5 dB
Output Voltage, 1 kHz . . . 600 mV
Output Impedance, 1 kHz . . . 3 k ohms
Acceptable Load Impedance, 1 kHz . . . 47 k ohms
Antenna Terminals
- Balanced . . . 300 ohms
- Unbalanced . . . 75 ohms

AM TUNER SECTION

Frequency Range . . . 515 ~ 1650 kHz
Usable Sensitivity (26 dB S/N 30% Mod., 1 MHz) . . . 20 μV
Selectivity, 1 kHz±9 kHz . . . 24 dB
Image Rejection, 1 MHz . . . 40 dB
IF Rejection, 1 MHz . . . 40 dB
Spurious Response Rejection, 1 MHz . . . 46 dB
Siganl-to-Noise Ratio, 1 MHz . . . 44 dB
Frequency Response, 1 MHz±3 dB . . . 35 Hz ~ 1.8 kHz
Total Harmonic Distortion, 1 MHz . . . 0.8%

GENERAL

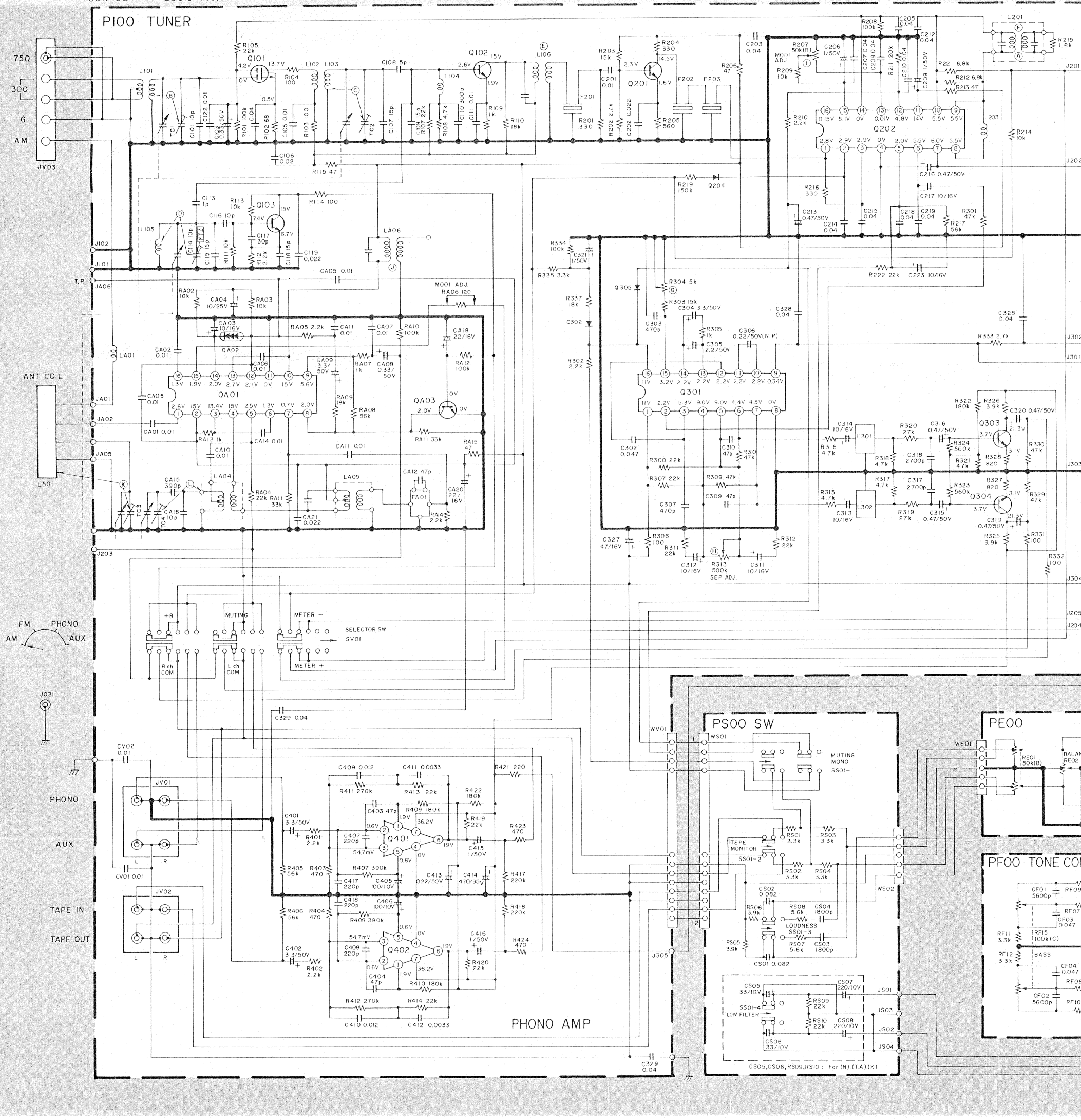
Power Requirements . . . 220 V AC, 50 Hz
(N version is featuring an external voltage selector for use on 110 V.
Other versions can be converted by a qualified technician to operate on 240 V.)
Power Consumption at Rated Output, Both Channels Operating . . . 120 W
Idling Power . . . 20 W
Semiconductor Complement
- Integrated Circuits . . . 7
- Transistors . . . 8
- Diodes . . . 13
- Field Effect Transistors . . . 1

Dimensions
- Panel Width . . . 18-3/8" (466 mm)
- Panel Height . . . 5-1/2" (140 mm)
- Depth . . . 12-3/4" (323 mm)

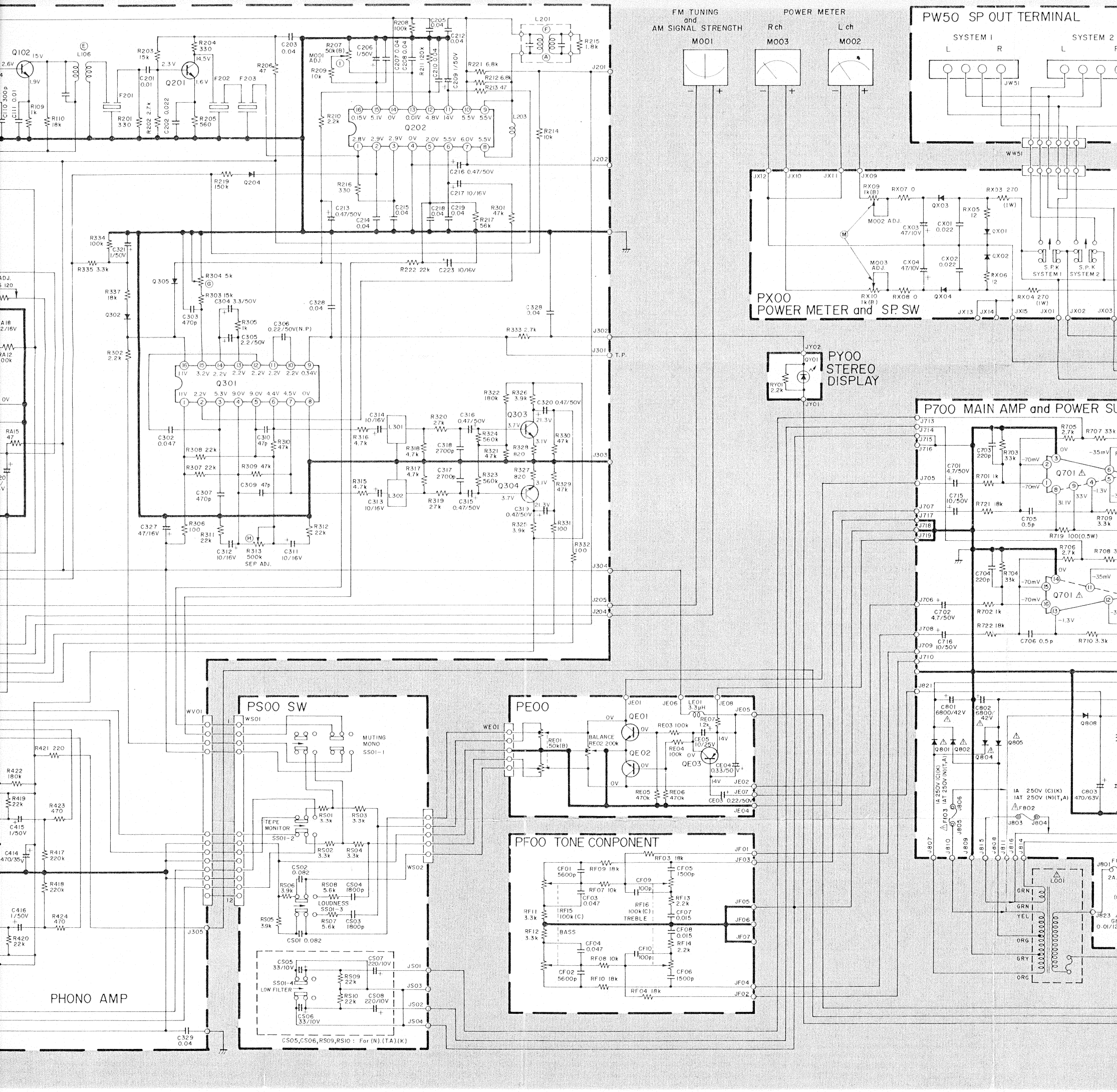
Weight
- Unit alone . . . 14.3lbs (6.5 kg)
- Packed for shipment . . . 18.7lbs (8.5 kg)

SCHEMATIC DIAGRAM

Q101	Q102	Q103, Q201	Q202	Q204, Q302, Q305	Q301	Q303, Q304	Q401, Q402	Q701	Q801 ~ Q804	Q805	Q806
HF400451B0 3SK45B	HT31047IC0 2SC1047(C)	HT30829IC0 2SC829(C)	HC10028030 LA1231	HD20011050 1S1555	HC10024060 μPC1161C	HT326342B0 2SC2634(S or T)	HC10012060 μPC1024H	HC10035030 STK-461M	HD20009290 S2V-20	HT403131Q0 2SD313E	HT309452A0 2SC945(Q or R)



	Q301	Q303, Q304	Q401, Q402	Q701	Q801~Q804	Q805	Q806	Q807	Q808	QA01	QA02	QA03	QE01, QE02	QE03
305	HC10024060 μPC11610	HT326342B0 2SC2634(S or T)	HC10012060 μPC1024H	HC10035030 STK-461M	HD20009290 S2V-20	HT403131Q0 2SD313E	HT309452A0 2SC945(Q or R)	HD3002109 BZ-140	HD20005010 W06B	HC10025060 μPC1178C	HV00006120 MV-203	HT326342B0 2SC2634(S or T)	HT309452A0 2SC945	HT1073 2SA73



2 1010

07 3002109 -140	Q808 HD20005010 W06B	QA01 HC10025060 μPC1178C	QA02 HV00006120 MV-203	QA03 HT326342B0 2SC2634(S or T)	QE01, QE02 HT309452A0 2SC945	QE03 HT107332A0 2SA733	QX01, QX02 HD20003210 1S2471	QX03, QX04 HD10001010 1N34A

FM TUNING and AM SIGNAL STRENGTH M001

POWER METER R ch M003 L ch M002

PW50 SP OUT TERMINAL
SYSTEM 1 L R
SYSTEM 2 L R
JW51 JW52 WW51

POINTER LAMP PZ00 VZ01 8V 100mA JZ01 JZ02

AM-FM METER LAMP PZ50 VZ51 8V 100mA JZ51 JZ52

POWER METER LAMP V001 8V 100mA

PX00
POWER METER and SP SW
JX12 JX10 JX11 JX09
RX09 1k(B) M002 ADJ. RX07 0 QX03 RX05 12 RX03 270 (1W)
CX03 47/10V CX01 0.022 QX01
M003 ADJ. CX04 47/10V CX02 0.022 QX02 RX06 12
RX10 1k(B) RX08 0 QX04 RX04 270 (1W)
S.P.K SYSTEM 1 S.P.K SYSTEM 2
RX01 330(1W) RX02 330(1W)
JX13 JX14 JX15 JX01 JX02 JX03 JX04 JX07 JX08

PW00
HEAD PHONE
JW03 JW02 JW04 JW01

PY00
STEREO DISPLAY
JY02 QY01 RY01 2.2k JY01

P700 MAIN AMP and POWER SUPPLY
J713 J714 J715 J716 J705 J707 J717 J718 J719 J706 J708 J709 J710 J821
R705 2.7k R707 33k R703 33k C703 220p C701 4.7/50V R701 1k C715 10/50V R721 18k C705 0.5p
Q701 ⚠
R713 0.33 (2W) R717 2.2 (0.5W) L701 C707 47/50V R715 4.7(0.5W) C711 0.1 R709 3.3k R711 1k R719 100(0.5W)
R706 2.7k R708 33k R704 33k C704 220p C702 4.7/50V R702 1k C716 10/50V R722 18k C706 0.5p
Q701 ⚠
R714 0.33(2W) R718 2.2(0.5W) L702 C708 47/50V R716 4.7(0.5W) C712 0.1 R710 3.3k R712 1k
+33V −33V
J703 F701 3.5A 250V 2.5AT 250V J701 (U,C)(K) (N)(T,A)
J704 2.5AT 250V (N) (T,A) F702 3.5A 250V J702 (U,C)(K)
C801 6800/42V C802 6800/42V Q801 Q802 Q804 Q805
Q808 R801 2.7k R802 1k C807 10/50V Q805 50.0V 34.0V Q806 14.6V Q807 14V
R806 150 (3W) R804 10k C806 10/25V R805 8.2k C803 470/63V C804 22/50V C809 220/16V
R002 10 (U) R001 10 (U)
J819 J817 J813 J812 J818 J820 J827
1A 250V (C)(K) 1AT 250V (N)(T,A) ⚠F802 J803 J804 J806 J805 J807 J810 J809 J815 J808 J811 J816 J814
⚠F803 1A 250V (C)(K) 1AT 250V (N)(T,A)
J801 ⚠F801 J802 2A/250V R807 2.2 (0.5W) J822 J826 J825 J823 ⚠G801 0.01/125V J824
GRN GRN YEL ORG GRY ORG ⚠L001
J022 J021 ⚠W001 ⚠S001

(U,C) VERSION

JE01 JE06 LE01 3.3μH JE08 JE05
QE01 QE02 QE03 RE03 100k RE07 1.2k RE04 100k CE05 10/25V CE04 0.33/50V RE05 470k RE06 470k CE03 0.22/50V JE07 JE02 JE04

PONENT
JF01 JF03 JF05 JF06 JF07 JF04 JF02
RF03 18k CF05 1500p CF09 100p RF13 2.2k CF07 0.015 RF16 100K(C) TREBLE CF08 0.015 RF14 2.2k CF10 100p CF06 1500p RF04 18k

BOTTOM VIEW
1: DRAIN 2: SOURCE 3: GATE 1 4: GATE 2 — Q101
1: EMITER 2: COLLECTOR 3: BASE — Q102, Q103, Q201, Q303, Q304, Q806, QA03, QE01~QE03
SIDE VIEW
1: BASE 2: COLLECTOR (FLANGE) 3: EMITER — Q805
Q401, Q402
Q701
TOP VIEW
QA01, Q202, Q301

(N) VERSION
⚠S001 ⚠J001 ⚠F001 1.25AT 250V J825 ⚠W001 ⚠J092 J824 ⚠G801 0.022/1000V ⚠J091 YEL RED GRN BRN ⚠L001

(K) VERSION
⚠J001 ⚠F001 1.5A/250V ⚠W001 ⚠J021 ⚠S001 ⚠J091 J824 J825 ⚠G801 0.022/1000V GRN BRN YEL BLU RED ⚠L001

(T.A) VERSION
BLU ⚠W001 ⚠J092 J825 J824 ⚠G801 0.022/1000V J826 ⚠G802 0.022/1000V ⚠S001 J822 ⚠J001 ⚠F001 1.25AT/250V ⚠J091 GRY RED BRN ⚠L001